HOLDEN

COMMODORE AND CALAIS

OWNER'S HANDBOOK

VN SERIES

Owner's Name ....

Address ....

Town ....

State ....Postcode ....

Model Name ....

Reg. No. ....Eng. No. ....

Odometer Reading ....

Date of Purchase ....

(17 character V.I.N.) Vehicle Identification Number ....

Vehicle Identification Certificate

Selling
Dealer's
Stamp & Signature ....

Change of address/ownership

General Motors-Holden's Automotive Limited, hereinafter Holden's, requests that owners who change their address (or name) or subsequent owners who purchase this car, complete and return by mail one of the forms on pages 10-52 or 10-54.

This notification is important even after the expiration of the original warranty in order that Holden's will be able to contact you should the need arise.

Part No. 92028710
November 1988 (Print 2)

We thank you for choosing Holden's and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

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- WARRANTY Page 5-1
- CHANGING A WHEEL Page 4-4
- OTHER EMERGENCIES Page 4-0
- FUEL Inside Rear Cover
- LIST OF DEALERS ACROSS AUSTRALIA Page 5-6
- CUSTOMER ASSISTANCE Page 5-15
- KNOW YOUR CAR Page 1-0

This handbook applies to all VN series models and therefore you may find reference to some equipment not installed in your car.

All information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden's reserves the right to make changes at any time without notice and without incurring any obligation.

CONTENTS

The first page of each chapter contains a "chapter index"

Chapter 1 .... **INSTRUMENT PANEL** .... page 1-0

The first page of this chapter illustrates the instrument panel, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

Chapter 2 .... **KNOW YOUR CAR** .... page 2-0

This section covers the other features of your car, not appearing on the instrument panel. Features covered include keys and locks, seat adjustment, seat belts, child restraints, windows, mirrors, park brake etc.

Chapter 3 .... **STARTING AND DRIVING** .... page 3-0

Please read chapters 1 and 2 to familiarise yourself with your car before proceeding to this section. This explains how to start your engine and the use of automatic and manual transmissions. There are also some precautions and fuel consumption notes.

Chapter 4 .... **ACCIDENTS & EMERGENCIES** .... page 4-0

The first two pages of this chapter show what to do at the scene of an accident, including giving medical assistance. Following, are some emergency procedures, including wheel changing, starting when the battery is flat, engine overheating, and towing a disabled car.

Chapter 5 .... **WARRANTY, AUTHORISED HOLDEN DEALERS, CUSTOMER ASSIST.** .... page 5-0

This sets out the terms of your warranty, lists the Holden Dealers across Australia and explains what to do if you need Customer Assistance.

CONTENTS

Chapter 6 .... **WEEKLY CHECKS** .... page 6-0

As well as taking your car in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, automatic transmission fluid, brake and power steering fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your car's light bulbs should the need arise.

Chapter 7 .... **TOWING** .... page 7-0

This has general guidelines regarding additional equipment to be used when towing a caravan or trailer - as well as loading capacities and safe towing tips.

Chapter 8 .... **CLEANING** .... page 8-0

Listed are the cleaning agents (and their application) that you should use to look after your car.

Chapter 9 .... **SPECIFICATIONS & EMISSIONS** .... page 9-0

This lists specifications, capacities and general replacement parts, including oil, coolant, and fluids. Also included is information relating to the emission control features fitted to your car.

Chapter 10 .. **SERVICE/MAINTENANCE SCHEDULE** .... page 10-0

This shows when your car requires servicing and what is done at each service. Also included are the coupons that are used when you take your car to a Holden Dealer to be serviced.

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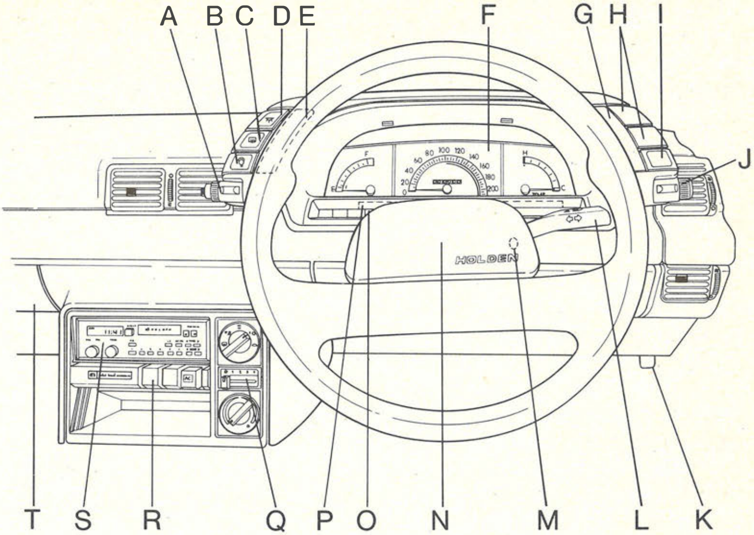
INSTRUMENT PANEL



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D	Interior (dome) light switch	1-9
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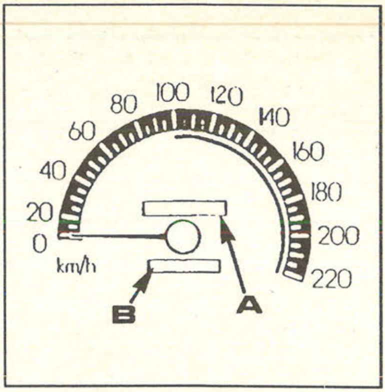
Speedometer

The speedometer gauge indicates speed in kilometres per hour.



(for models except Calais)

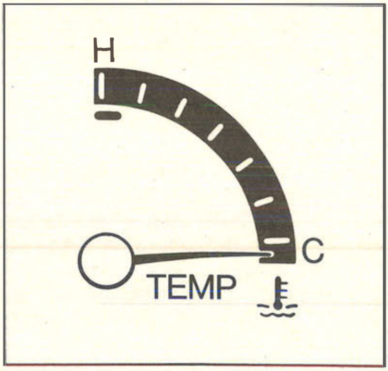
The odometer (A) records kilometres travelled since the car was built.

The tripmeter (B) records kilometres travelled on a particular trip. Push the SET knob (beneath the speedometer) to reset the tripmeter reading to zero.

Note: Calais trip meter and odometer refer Trip Computer, page 1-17.

Engine coolant temperature gauge

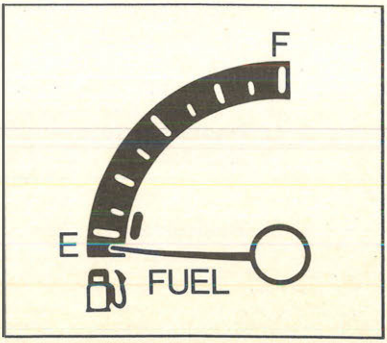
The temperature gauge indicates the engine coolant temperature, when the ignition is switched to ON.



Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing a caravan may cause the needle to move toward the "H". This is not dangerous. However, if the needle should move all the way to "H" and remain there for more than 30 seconds, this signals an engine overheat condition and you should stop the car as soon as it is safe to do so. Refer page 4-7 for further instructions.

Fuel gauge

The fuel gauge indicates the level of fuel within the fuel tank when the ignition is switched to ON. "E" represents empty and "F" represents full.

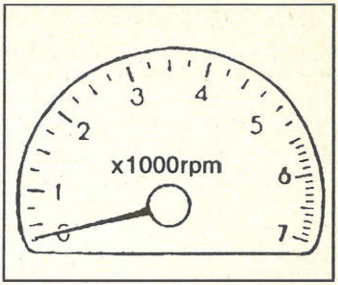


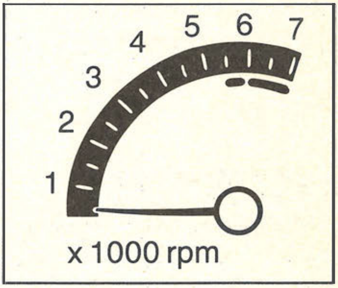
Refer to information on the inside of the rear cover of this Handbook when refuelling.

Tachometer (where fitted)

The tachometer records engine speed in revolutions per minute (r.p.m.).

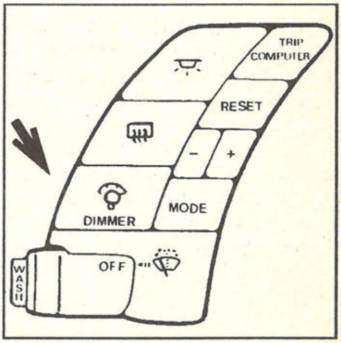
Sustained operation in the RED zone will cause serious engine damage.


0
1
2
3
4
5
6
7
x1000rpm


1
2
3
4
5
6
7
x 1000 rpm

Dimming instrument illumination

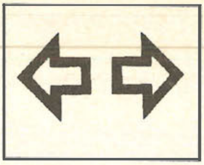
Gauges are illuminated when the headlights or parking lights are switched on. Adjustment of the brightness is controlled by the switch (to the left of the gauges), marked "DIMMER". This switch has two positions - bright and dim. Press the switch to change between the two positions.


TRIP COMPUTER
RESET
-
+
DIMMER
MODE
OFF
WASH

Turn signal indicator

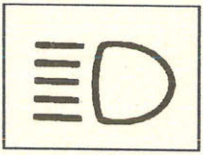
The appropriate green arrow will continuously flash while the lever on the right side of the steering column is moved (refer page 1-8) and the ignition key is turned to ON.

NOTE: Both arrows will flash when the Hazard Warning Flasher is switched on, refer page 1-6.



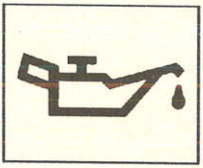
High beam indicator

This blue symbol is displayed when the headlight high beams are in use.



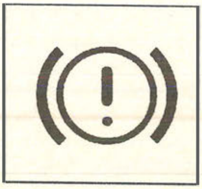
Oil pressure warning

This symbol is displayed when the ignition key is turned to ON - before the engine is started. If the symbol comes on while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.



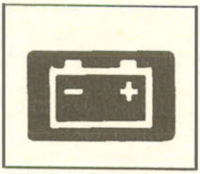
Brake warning

This red symbol will flash when the ignition key is turned to start the engine. If the light is illuminated while driving it indicates that there is something wrong with the braking system. You should immediately stop on the side of the road as carefully as possible. Do not proceed until satisfied that cautious progress is possible or that the cause of the problem has been fixed.



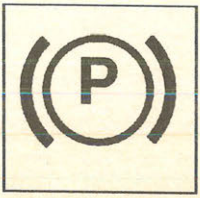
Generator warning

This symbol is displayed when the ignition key is turned to ON - until the engine is started. If the symbol is illuminated when the engine is running it indicates that the generator is not charging. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer.



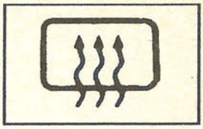
Park brake indicator

When the park brake is applied and the ignition is turned to ON the red symbol will glow - until the park brake is released.



Rear window demister indicator

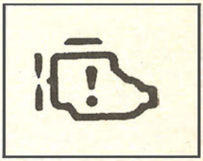
This symbol will illuminate when the demister is working (i.e. demister switched on and the ignition key is turned to ON).



Note that this symbol will also be displayed (regardless of ignition position) when the demister is switched on and the headlights or park lights are turned on. However, the demister will only be working when the ignition is turned to ON.

Check engine warning

Your car is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

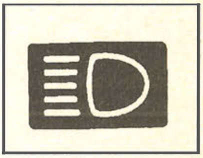


This symbol is displayed when the ignition key is turned to ON - until the engine is started.

If the symbol is illuminated whilst driving (either intermittently or continuously) then service to the Engine Management System is required. Although the car may still be driveable and does not require towing, see your Holden Dealer as soon as possible for an inspection of the System, as continued driving could affect fuel consumption and engine performance.

"Lights on" indicator (where fitted)

This orange symbol will illuminate to warn you that the headlights are still switched on with the ignition off. Refer page 1-8.



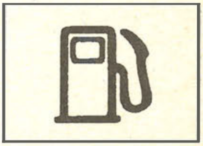
Cruise control indicator (where fitted)

If your car is fitted with a Cruise Control system this orange symbol will illuminate when the system is controlling vehicle speed. Refer page 1-13 for explanation of the cruise control.

CRS

Low fuel indicator (Calais only)

This symbol is displayed when the fuel tank is nearly empty (approx. 8 litres), provided the ignition key is turned to ON.



Reverse indicator (Calais only)

This orange symbol is illuminated when the ignition key is turned to ON and the automatic transmission is shifted to "R" (reverse gear).

REV

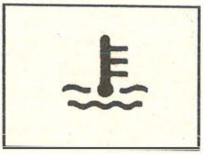
Over speed indicator (Calais only)

SPD

This orange symbol will illuminate to warn you when vehicle speed has exceeded the preset "over speed" setting of the trip computer. This setting is adjustable, refer page 1-16 for explanation.

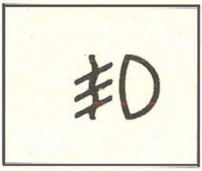
Over temperature warning (Calais only)

If the symbol is displayed when the engine is running it indicates that the temperature of the engine coolant is dangerously hot. You should stop the car as soon as it is safe to do so. Refer page 4-7 for further instructions.

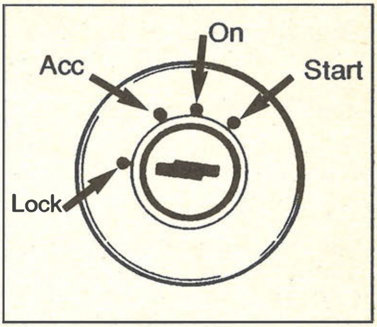


Fog lamps (where fitted)

This green symbol is illuminated when the ignition is turned to ON and the fog lights are in use, refer page 1-8.



Ignition switch



LOCK
Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it clockwise. If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

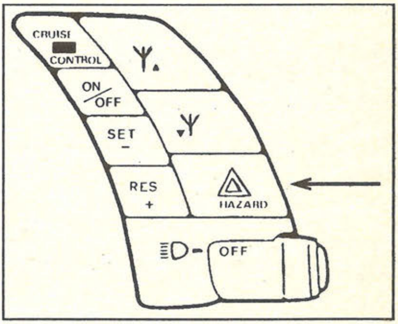
ACC
The engine is off but accessories such as the radio and wipers still operate.

ON
This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

START
This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

CAUTION: Do not turn the engine off while the vehicle is in motion as this renders ineffective any power assisted equipment (such as brakes or steering) operated by the engine. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.

Hazard warning flasher



Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Turn on the hazard warning flasher by pushing the switch illustrated. This makes all four turn signals flash continuously, regardless of the ignition position. The green arrows on the instrument panel will also flash. To cancel the hazard flasher, repress the switch.

Use of the hazard warning flashers while the car is moving is prohibited by Law in some States.

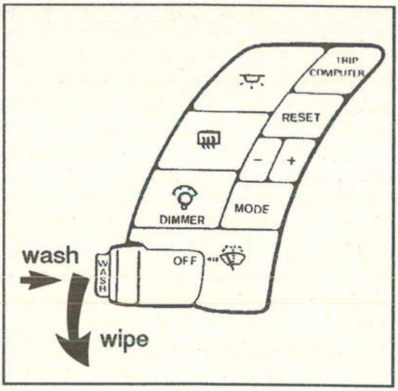
Note that whereas both the wipers and washers are operational when the ignition is turned to either ON or ACC, the rear window demister only operates when the ignition is turned to ON.

Front wipers & washers

The knob to the left of the gauges controls the windscreen wipers and washers.

Never operate the wipers on dry glass, as this will damage the rubber. To obtain a spray of fluid, push in and hold the button on the end of the knob as long as required. This will automatically turn on the wipers for a short time, if not already operating.

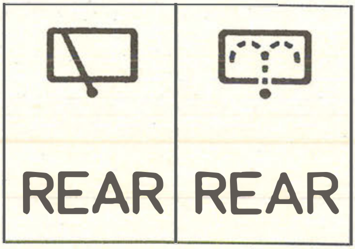
Rotate the thumb lever on the knob to turn on the wipers. INT (intermittent) is used when driving in conditions such as drizzle or mist, 1 switches the wipers to low speed and 2 to high speed.



Rear wiper and washer (wagon only)

The two switches (located below the radio) control the rear wiper and washer on wagon models.

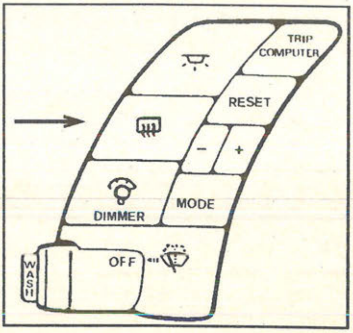
Never operate the wiper on dry glass, as this will damage the rubber. To obtain a spray of fluid, press the "wash" switch as long as required. Depress the "rear wipe" switch to turn on the wiper, repress the switch to turn the wiper off.



Rear window demister

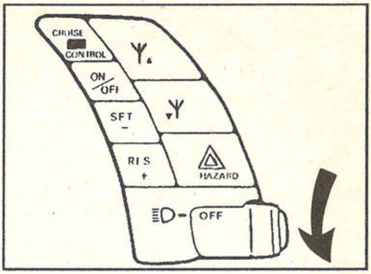
Press the switch to turn on the demister. A symbol on the instrument panel will illuminate, refer page 1-4. Repress the switch to turn the demister off.

Note: To avoid unnecessary electrical consumption the demister should be switched off when the window is clear.



Refer page 6-7 when topping up washer fluid.

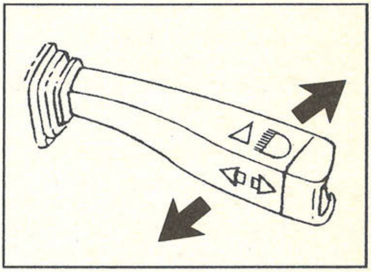
Light switch



The park lights and head lights are controlled by the knob to the right of the gauges.

Rotating the thumb lever of the knob to the first position turns on the park, tail, rear licence and instrument panel lights. Rotating to the second position also turns on the headlights.

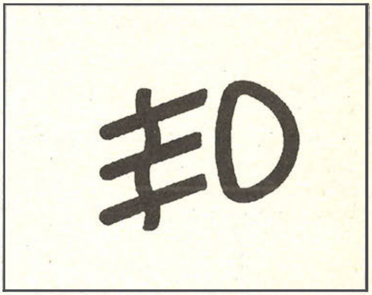
High/low beam



High/low beam is controlled by the lever mounted on the right side of the steering wheel column. With the headlights on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. When the high beams are in use, a blue light on the instrument panel will glow.

It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you; the lights will remain in high-beam as long as the lever is held.

Fog lamps (where fitted)



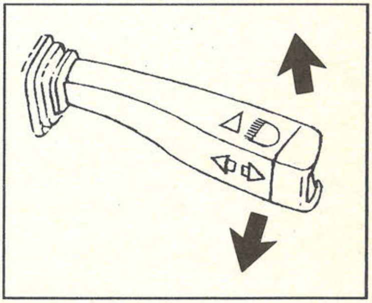
# Fog lamps are selected when the button on the switch (located below the radio) is out. Repress the switch to turn off.

Turning on fog lamps automatically turns off the headlights.

# Fog lamps only work when headlight switch is turned on.

# High beam, however will still operate if fog lamps are in use.

Turn signals



The turn signals are operated by the lever mounted on the right side of the steering wheel column. The lever is pushed up to signal a left turn and down to signal a right turn. The lever will return to the neutral position when the turn is completed.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel will flash when the lights are in operation. This is accompanied by a clicking sound.

Radio/cassette/clock & telephone

Refer to the operating instruction supplement in your glovebox for all information relating to the operation of your radio/cassette/clock and telephone (if fitted).

Radio PIN (Calais only)

If the power to the radio or the battery is disconnected, the radio is totally inoperative until the P.I.N. (Personal Identification Number) is entered into the radio.

For details of how to enter your P.I.N. refer to card supplied with your car showing radio P.I.N. security number and entry instructions.

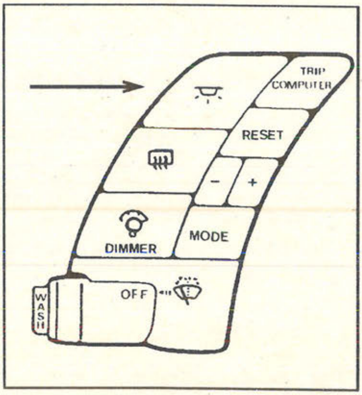
Please keep in a safe place, perhaps with your registration papers. Do NOT keep P.I.N. in your car, as this safety feature is provided as a theft deterrent.

If P.I.N. number is lost, contact your Holden Dealer. He will require proof of ownership and the Vehicle Identification Number of your car. Your P.I.N. will be mailed to you a few days later.

Interior light(s)

The interior light(s) will come on and go off with the opening and closing of any door. In addition, the light(s) may also be turned on or off by pressing the switch illustrated, regardless of the ignition key position.

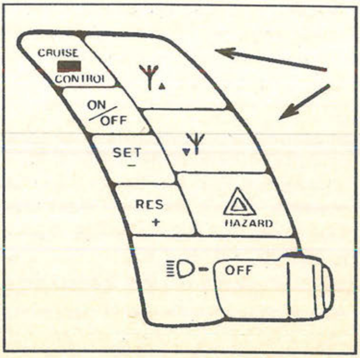
If your car is fitted with electric windows then, an additional time delay feature, keeps the lights on for 10 seconds after closing all doors or turning off the switch. However, switching the ignition to ON will override the time delay. Reading lights may individually be turned off or on, refer page 2-14.



Electric antenna (where fitted)

The electric antenna will not operate unless the radio unit is switched on. The height of the antenna is controlled by the switches illustrated. These are marked by arrows which indicate the direction the antenna will move when each switch is pressed. When the radio is turned off or the ignition is turned to OFF or LOCK the electric antenna will automatically retract.

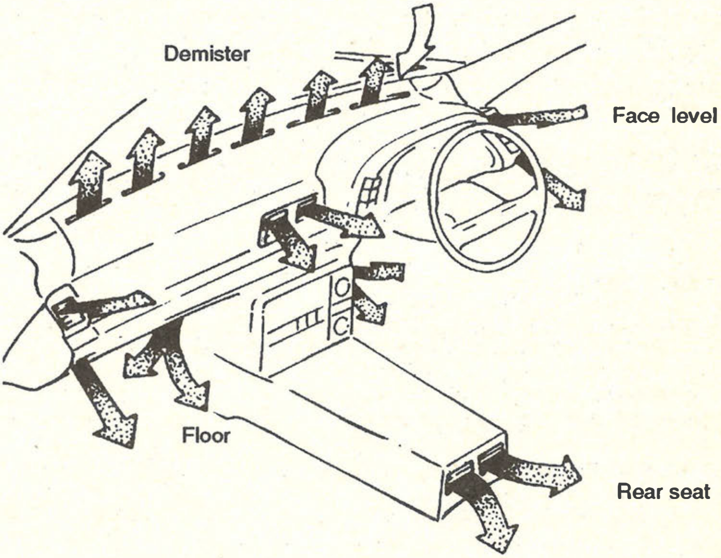
Manual antenna adjustment, refer page 2-14.



The car features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Outside air (except when re-circulate is selected) is drawn into the car through the grille in front of the windshield. Do not allow the grille to become clogged with leaves or snow.

Outlets

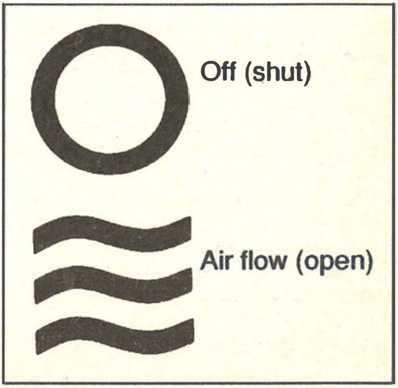
The air can be directed to four different types of outlets by turning the Mode Dial - *demist, face level, floor* and *rear seat* (if air conditioning fitted).



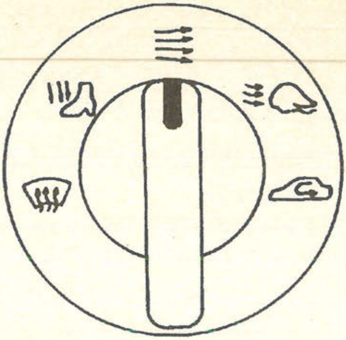
The *floor* and *demister* outlets are fixed, as these direct air to the windscreen/windows or feet in the best possible way.

The six *face level* outlets (located on the instrument panel) and two *rear seat* outlets (if air conditioning fitted) have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

These outlets have shut off doors which can also be used to adjust the air volume to suit individual comfort. For example, air flow at the centre vents can be reduced to enhance air flow at the rear seat or outer face vents.



Mode dial



Note: in all positions, a small amount of air is directed to the demist outlets.

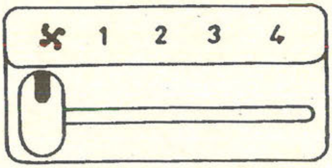
1. DEMIST. Air is delivered to the *demist* outlets.

2. FLOOR. Air is directed to the *floor* outlets.

3. BI-LEVEL. Cooler air is delivered from the *face* and *demister* outlets and warmer air from the *floor* outlets. This position can be used for most winter driving.

4. FACE. Air is delivered from the six *face* level outlets and the rear seat outlets (if fitted).

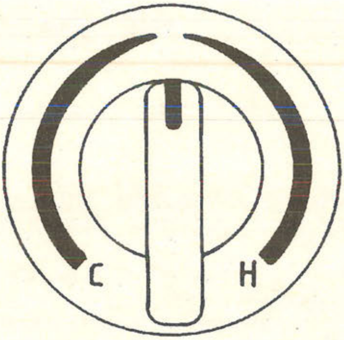
5. RE-CIRCULATE. No outside air is admitted. Cabin air is recirculated and directed back through the six *face* level outlets. Refer operating notes on following page.



Fan switch

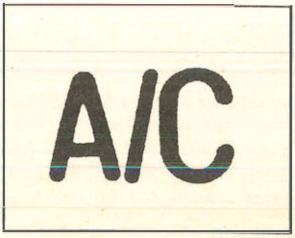
The fan switch provides speed control of the blower fan in all Mode dial positions.

Temperature control dial



The temperature control dial regulates the temperature of the air entering the passenger compartment in all Mode dial positions.

Air conditioning (if fitted)



Air conditioning is turned on when the button on the switch (to the left of the heater controls) is out. Repress the button to switch off and achieve lower fuel consumption. Note that the fan switch must be set to 1 or above for the air conditioning to work.

When the air conditioner is switched on and the Mode dial is turned to either Bi-level or Face, air is also delivered from the *rear seat* outlets.

The air conditioner operates more effectively when all the windows are closed.

Unsealed roads

When following another car on dusty roads, or to prevent exhaust fumes or odours from entry into your car, select the re-circulate position on the mode dial and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the *face* or *bi-level* setting of the Mode dial (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the car will prevent any dust entry.

Air conditioning (where fitted)

Hot weather For a "quick cool down" when first entering the car on a hot day, switch on the air conditioner, turn the Mode dial to *re-circulate*, turn the temperature control dial to full cold and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows (the air conditioning works more effectively with the windows up).

It is recommended that when the interior cools down (approximately 10 to 20 minutes) to set the Mode dial to *face* (outside air) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when *re-circulate* is selected. This can be used in slow city traffic or when the car is stationary in very hot weather. Occasionally select *face* or *bi-level* to allow outside air to enter the car.

Automatic transmission If your car is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N(neutral) or P(park). This will increase your engine speed which in turn aids engine cooling and air conditioner performance.

? is this true?

Cold weather If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, turn the Mode dial to *demist* or *bi-level* and select a warm setting with the temperature control dial. This will circulate warm, dehumidified air throughout the car, defogging the windows. Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Cigarette smoke If occupants are smoking, it is recommended that the "*re-circulate*" position of the Mode dial NOT be used, as residues from the tobacco smoke adhere to the air ducts and will produce stale smelling air.

Important Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system and prevent the seals from drying out.

Notes Occasionally a slight hissing sound may be heard for a short time when the air conditioner switches off and pressure in the system equalisers. This is normal.

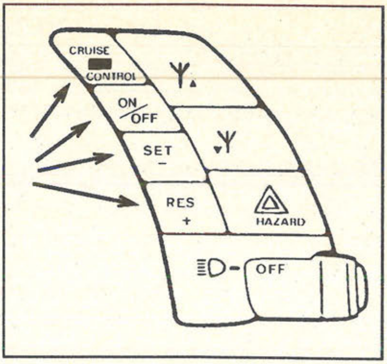
When driving at high speeds the air conditioning compressor may switch off so that full engine power is available.

The system is protected by switches that guard against abnormal loads and loss of refrigerant. The compressor may switch off temporarily. Have the system checked by a Holden Dealer if this occurs.

CRUISE CONTROL (where fitted)

The cruise control enables you to select and maintain, or adjust a constant travelling speed, provided it is within engine limitations and over 40 km/h approx.

Press the switch marked "ON/OFF" and a green light on the "CRUISE CONTROL" button will glow, indicating the system is activated and ready for use. An orange CRS symbol on the instrument panel will illuminate when the Cruise Control is engaged and is maintaining vehicle speed.



TO SET INITIAL SPEED you may either:

1) use the accelerator pedal to gain your desired speed, press the SET button once and take your foot off the accelerator pedal.

or

2) once above 40 km/h, press and hold down the RES button while taking your foot from the accelerator pedal. Your speed will gradually increase until you release the RES button.

TO ADJUST YOUR INITIAL SPEED you may either:

1) press and hold the SET button until the car coasts down to the desired speed, then release

or

press and hold the RES button until the car accelerates up to the desired speed.

2) minor changes in speed (1.6 km/h) can be achieved by momentarily tapping the appropriate button: RES to increase, SET to decrease speed.

NOTE - you cannot "tap" under 40 km/h approx.
- you may only "tap up" to 16 km/h above vehicle speed.

TO RELEASE THE CRUISE CONTROL you may either:

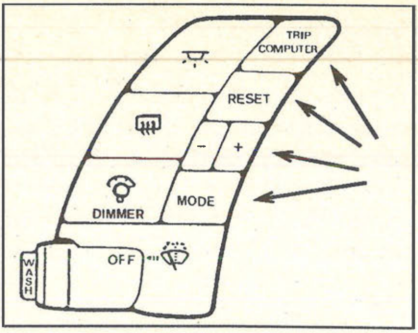
1) press the ON/OFF switch, which will deactivate the whole system and wipe clear any speed memory.
2) touch the brake pedal, which will release the cruise control but retain the speed in it's memory so that you only have to "tap" the RES button to regain that speed - provided you are travelling over 40 km/h at the time. Holding down the RES button for longer than one second will clear the memory and set the speed at what you are travelling.
3) press the RES and SET buttons at the same time, which will also retain memory speed.

Warning

DO NOT USE THE CRUISE CONTROL WHEN ROAD OR DRIVING CONDITIONS COULD REQUIRE VARYING SPEEDS. A CONSTANT SPEED MAY NOT BE PRACTICAL IN HEAVY OR VARYING TRAFFIC, OR ON WINDING, SLIPPERY OR ROUGH ROADS. REMEMBER THAT TAKING YOUR FOOT OFF THE ACCELERATOR WHEN THE CRUISE CONTROL IS ENGAGED DOES NOT LET THE CAR SLOW DOWN. TO DISENGAGE THE SYSTEM YOU MUST TOUCH THE BRAKE PEDAL, TURN THE POWER SWITCH OFF, OR DEPRESS THE RES AND SET BUTTONS TOGETHER.

WHEN GOING UP OR DOWN HILLS, (PARTICULARLY WHEN TOWING) IT IS POSSIBLE FOR THE CAR TO GAIN OR LOSE SPEED, EVEN THOUGH THE CRUISE CONTROL IS OPERATING . IN THAT CASE, YOU MAY NEED TO DISENGAGE THE SYSTEM AND RESUME MANUAL SPEED CONTROL.

TRIP COMPUTER (Calais only)



When the ignition is turned to *ON* the trip computer will display the same group of functions as when the ignition was turned *OFF*.

Each time the mode button is pressed the next group of functions will be displayed; the order is as follows:

# over speed warning (km/h)
    # instantaneous fuel consumption (litres/100 km)
        # distance to empty (km)

# average speed since reset (km/h)
    # average fuel consumption since reset (litres/100 km)
        # odometer (kms travelled since car was built)

# trip time (ignition "on" time since last reset)
    # total fuel used since reset (litres)
        # distance travelled since reset (km)

The computer can be reset at any time, however, the following is considered normal practice:

- At each tank refill. The computer will then give you results that are averaged out over each tank full of fuel.
- at beginning of a trip. This might involve many tank refills and results will then be computed over the total journey.

To reset the computer, hold down the RESET button, and press the MODE button. This will reset all functions, with the exception of DISTANCE TO EMPTY, OVER SPEED WARNING setting and the ODOMETER.

If the wrong buttons have been accidently pressed, causing the display to show other than the normal readings, turn the ignition OFF, then on again.

Over speed warning

The orange over speed warning symbol (SPD) on the instrument panel will illuminate when vehicle speed exceeds the speed set on the trip computer.

The over speed warning is alternatively turned off or on by tapping the RESET button twice in succession when OVER SPEED is displayed.

To adjust the setting ensure OVER SPEED is turned on and that it is displayed on the trip computer. Then press either the + or - buttons or increase or decrease speed setting. Display is adjustable in 5 km/h units.

Owners must be aware that a manufacturing tolerance is normal between the overspeed warning and the speedometer gauge reading. However, this tolerance will not exceed 5 km/h.

Instantaneous fuel consumption

The INSTANTANEOUS FUEL CONSUMPTION shows litres per 100 km.

Distance to empty

This function is updated every 2 minutes. No computer can predict the future so the DISTANCE TO EMPTY function can is an estimate on previously obtained information. For this reason, as conditions become more suited to economical driving the DISTANCE TO EMPTY can actually increase, for example, from city to highway driving.

The DISTANCE TO EMPTY is calculated from both fuel usage and the amount of fuel remaining in the tank. Because of movement of fuel in the tank while the car is mobile, the readings are heavily damped and average over a long time - approx, 20 mins.

Therefore, if less than 20 litres approx of fuel is added, this will register as fuel surge and the DISTANCE TO EMPTY will not immediately increase. However, when adding more than approx 20 litres the computer will indicate a higher DISTANCE TO EMPTY immediately the ignition is again turned to ON.

Average speed

The AVERAGE SPEED reading measures average speed since the computer was reset and only calculates this average speed whilst the ignition is on. The reading is updated every minute.

Average fuel consumption

The AVERAGE FUEL CONSUMPTION calculates fuel usage since the last reset and reads in litres per 100 km. The display is updated every minute.

When the function is first called up after resetting the trip computer some large numbers may appear due to the short distance travelled and the high fuel consumption during acceleration.

Odometer

The ODOMETER records kilometer travelled since the car was built.

Trip time

The TRIP TIME display shows ignition “on” time since the trip computer was last reset.

Total fuel used

This function shows the total fuel used in litres since the computer was reset.

Distance travelled (trip meter)

This function shows the distance travelled in kilometres since the computer was reset.

If the RESET button is tapped twice in succession (when the DISTANCE TRAVELLED is displayed) the DISTANCE TRAVELLED will be reset to zero - without resetting the other readings.

Calibration numbers

The trip computer uses in its calculations three separate calibration numbers - fuel flow, fuel tank and distance. These figures are pre-set for the standard car, and do not have to be adjusted. However each car does vary due to tyre size, tolerances etc., and therefore the facility is provided to adjust these figures for greater accuracy. The procedures for each calibration number is as follows.

Distance calibration number

Press the MODE button until the DISTANCE TRAVELLED is displayed.

~ Line the car against a known marker, e.g., line the front wheel of the car with a highway kilometer (shield) post.

~ Press + and - buttons simultaneously - the display will go to zero.

~ Drive off and display will increase. Stop the car exactly 10 km from the starting point, e.g., front wheel in line with highway kilometre (shield) post, 10 km from the original post.

~ Press the - button. This will complete the distance calibration, enter the displayed calibration number into the computer memory and return the display to the DISTANCE TRAVELLED function.

NOTE: - This calibration does not reset other functions back to zero
- The calibration number will return to 625 if the new figure is outside the limits of 497 and 752.

The Calibration Number can be shown at any time by holding the RESET button for longer than 3 seconds when the DISTANCE TRAVELLED is displayed, and can be manually adjusted by pressing + or - buttons while the Calibration Number is displayed.

Fuel flow calibration number

The preset figure is 625. If you wish to adjust this, first reset the trip computer. Then for at least five consecutive fuel fills record the total litres added, as appears on the Service Station Fuel Pump. Note also the figure on the TOTAL FUEL USED function, then calculate on a desk calculator.

$$\text{cal. (new)} = \text{cal. (old)} \times \frac{\text{FUEL USED (trip computer)}}{\text{actual (service station pump)}}$$

To adjust the Fuel Flow Calibration Number:

~ Press the MODE button until the INSTANTANEOUS FUEL CONSUMPTION is displayed.

~ Hold the RESET button for longer than 3 seconds to show the Calibration Number, and whilst held press the + or - buttons to adjust number.

~ Release the RESET button. This will enter the new Calibration Number into the memory and return the display to the INSTANTANEOUS FUEL CONSUMPTION display.

Fuel tank calibration number

If the car has run very low on fuel or completely run out of fuel:

~ Park the car on level ground.

~ Press the MODE button until the AVERAGE FUEL CONSUMPTION is displayed.

~ Hold the RESET button to display both the computer's reading of litres remaining in the fuel tank and the fuel tank calibration number.

~ Whilst holding the RESET button, use the + or - buttons to adjust the fuel tank contents to read zero. The fuel tank calibration number will simultaneously be adjusted.

~ Release the RESET button. This will enter the new calibration number into the computer memory and return the display to the AVERAGE FUEL CONSUMPTION display.

NOTE: The owner may wish to use this feature to deliberately program a fuel reserve into the trip computer. The preset figure is .0.

Horn

The horn is activated when the pad(s) in the steering wheel is pressed, regardless of the ignition key position.

Glovebox

The glovebox is provided on the passenger side of the instrument panel.

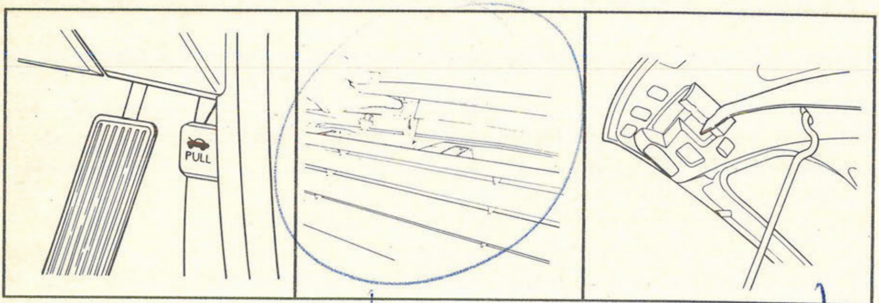
To lock, insert the key, turn clockwise and then withdraw.

To unlock, insert the key and rotate anti-clockwise.

To open, squeeze the two slides of the catch together and pull towards you. To close, push lid firmly back into place. This will engage the catch.

Bonnet release

Pull the bonnet lock release located beneath the instrument panel, to the right of the steering column. This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the bonnet and move safety catch upwards. Hold in this position, raise bonnet and support by inserting support rod into the provided slot.



For closing, return support rod to its resting position and lower bonnet gradually to be finally dropped under its own weight.

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Chapter 2

Know your car

Page

2-1 Keys
2-2 Locks (fuel filler, boot, tailgate, child safety)
2-3 Door Locks
2-4 Calais anti-theft system
2-6 Mirrors
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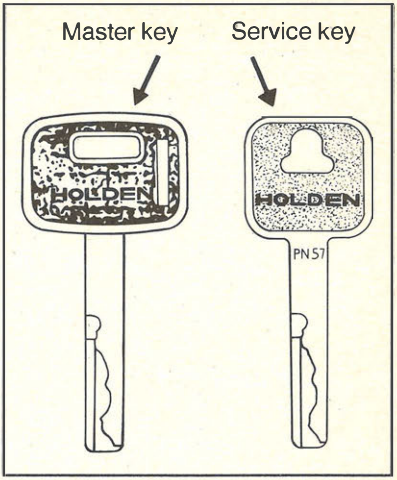
2-14 Park brake, reading lights
2-14 Manual antenna

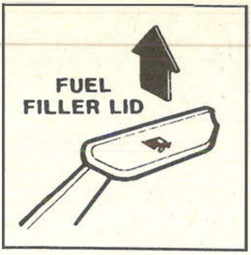
Your Commodore or Calais is fitted with a two key locking system which provides security for personal valuables when parking in car parks where locking of cars is not permitted.

The **master key** (plastic head) is retained by the driver and operates all locks on the car. The **service key** (metal head) is left with the attendant as it only operates the ignition and door locks. This enables the car to be moved if required but will not open the glovebox or boot. Remember however, not to leave valuables in the boot, as access can be gained via the fold down section of the rear seat.



The key code number is stamped on the **master** key head. Before placing the key on your key ring, record the code number and keep it in a safe place so that if the key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number and providing proof of ownership. Because the keys are *profile cut*, special key cutting processes are required and replacements will not be available "off the shelf".

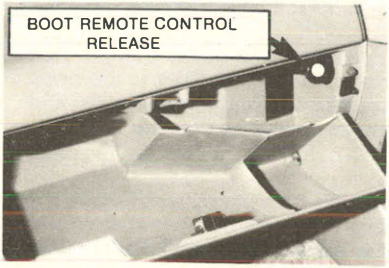
Fuel filler



A remote release lever for the fuel filler flap is provided inside the car. Pull up the release lever, mounted on the floor, to the right of the driver's seat.

The fuel cap is a screw-on ratchet type. Tighten the cap clockwise until a clicking noise is heard. Refer to information on the inside rear cover of this handbook when refuelling

Boot



To unlock, turn the master key clockwise. The boot opens automatically. The boot relocks automatically when pushed shut.

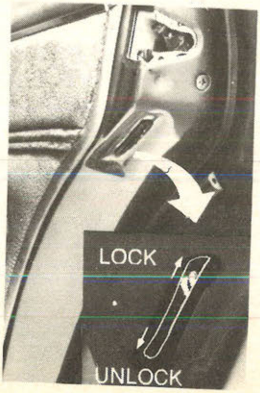
In addition, your car may be fitted with an electrically operated release system. Depress the button inside the glovebox to release the boot lock.

Tailgate

To open the tailgate, insert the master key and turn clockwise. Remove the key and push the button to open. Gas struts will automatically lift the tailgate to the fully open position. Remember to lock the tailgate when it is closed again.

CAUTION: To prevent entry of dangerous exhaust fumes into the passenger compartment, the boot or tailgate should be closed during vehicle operation. However, if it is necessary to leave the boot or tailgate open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up, switch heater controls to "fresh" and set fan to highest speed.

Rear "child proof" door locks



Child safety locking helps prevent doors from being accidently opened, especially when small children are in the car.

When the lever is in the lock position, the rear door cannot be opened from the inside. It can be opened only from the outside.

CAUTION: For safety, you should check that the lock is operating correctly, after setting by attempting to open the door from the inside of the car.

Manual

The orange section of interior door locks is provided as an "unlock" reminder. Doors are locked when the lock knob is down and the orange section no longer visible.

Passenger doors may be locked behind you by depressing the lock knob when the door is open then shutting the door firmly. It is not necessary to hold the handle up when shutting. The driver's lock knob, however, cannot be depressed when the door is open, thus preventing the driver from inadvertently being locked out. Both front doors can be locked or unlocked from outside the car with the master key or service key. Turn the key towards the front of the car to lock, towards the rear of the car to unlock.

WHEN LEAVING THE CAR, REMEMBER THAT THE DRIVER'S DOOR CAN BE LOCKED ONLY BY USING THE KEY.

Electric (where fitted)

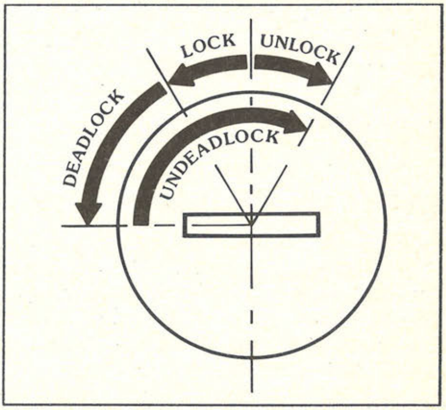
The orange section of interior door locks is provided as an "unlock" reminder. Doors are locked when the lock knob is down and the orange section no longer visible.

All passenger doors may be unlocked or locked individually. However, when the DRIVER'S lock knob is operated all the doors will simultaneously lock or unlock. The front, passenger lock knob also unlocks all doors when pulled up.

Each door may be locked behind you by depressing the lock knob when the door is open then shutting the door firmly. It is not necessary to hold the handle up when shutting. The driver's lock knob, however, cannot be depressed when the door is open, thus preventing the driver from inadvertently being locked out.

All doors can be locked from outside the car with either the master or service key. Turn the key towards the rear of the car to lock, towards the front of the car to unlock.

LOCKING THE DRIVER'S DOOR WITH A KEY NOT ONLY LOCKS ALL THE DOORS BUT ALLOWS SETTING THE "DEAD-LOCK" PROTECTION. THIS IS SET BY TURNING THE KEY AN ADDITIONAL 60 DEGREES IN THE LOCK BARREL (TOWARDS THE REAR OF THE CAR). THIS ELECTRONICALLY JAMS ALL THE ELECTRIC LOCK MECHANISMS SO THAT NO DOOR CAN BE OPENED - EVEN IF ENTRY IS GAINED BY BREAKING GLASS.



CAUTION: Do not use *dead-lock* if there are people in the car. The doors cannot be unlocked from inside.

The anti-theft system, fitted on all Calais models operates in addition to the security provided by the electric door locking described on the previous page.

Features
- automatic door locking
- disconnection of ignition system
- theft alarm

The anti-theft system fitted to your car is switched on by depressing the button on the remote controller and holding it down until the four turn signals on your car flash TWICE, indicating that the system is operational. A small red light on the controller next to the button will illuminate when the button is depressed, indicating that the signal is transmitting to the car.

As soon as the car receives the signal from the controller (it will not receive if the ignition is turned on) all the doors will lock and the ignition will be deactivated - so that the car cannot be started with the ignition key.

Approximately 30 seconds after the car's turn signal lights flash twice, the theft alarm becomes operational (the delay gives you time to re-close a door if not fully shut). The alarm is triggered when there is a change in battery current. If a door, boot or bonnet is opened, the respective courtesy light will come on, changing the battery current and so triggering the alarm....regularly check for blown light bulbs! Once triggered, a loud pulsating alarm will sound and all four turn signals will flash. After 60 seconds, the noise and lights will switch off and the alarm will reset - to guard against a further attempt by the thief to enter the car.

TO SWITCH OFF the system, depress the button on the remote controller and hold it down until the turn signal lights on the car flash ONCE. This indicates that the alarm is switched off. The ignition circuit is reconnected and doors are unlocked.

OVERRIDE KEY

An override switch is provided inside the glovebox. Two override keys are originally provided. Record the number. Keep one key in a safe place and the other for ready use (it is advisable not to put it on your key ring because if your car keys fall into the wrong hands so will the override key for your alarm). Turning the switch in the glovebox anti-clockwise with the key will override the alarm system and reconnect the ignition circuit should the remote controller be lost or malfunction due, for example, to a flat battery. Insert the key and turn anti-clockwise. The remote controller will not then operate - until the key is again inserted and turned clockwise.

NOTES

The remote contoller is powered by a standard 12V Zinc-Carbon Supercell battery, model GP23 or equivalent (National RV08). With normal usage this should last between 6 and 9 months. A flat battery should then be replaced. This will be checked for you when your car is serviced at your Holden Dealer, provided you leave the remote controller with the car.

Batteries can be obtained from your Dealer or shops stocking electronic cigarette lighter batteries. Split the case open with a finger nail by the indent mark on the side of the case. Insert a new battery by tilting (-) end in first, taking care that it corresponds to the (-) mark on the case.

Two remote controllers are originally provided. Both have the same identification number. Please record the number and remove the label. Keep one controller in a safe place (with the spare override key) and the other for everyday use. Again, do not put the controller on your car's key ring because if the car keys fall into the wrong hands so will the device for de-activating your alarm.

In the event of loss or damage a replacement can be ordered from a Holden Dealer. He will require proof of ownership and the serial number of the remote controller.

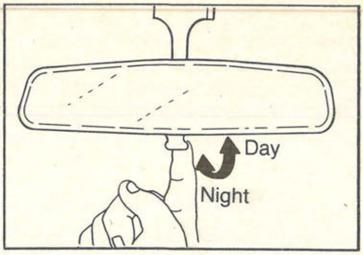
If your car fails to start, but the engine cranks over, first check that you have not accidentally turned the system on with the remote controller. If the starting still fails, turn the override key anti-clockwise and try again before calling service personnel. If it then starts, drive to your Holden Dealer and have the system checked.

Remember that the dead-lock feature will *not* be activated if you lock the doors with the remote controller. Dead-lock can only be set by turning the **key** to the horizontal position. Likewise, the remote controller cannot unlock the car when the deadlock is set. You must use the key.

Internal rear vision mirror

The control lever on the lower edge of the mirror enables reduction of the headlight glare from following vehicles when driving at night.

During normal daylight operation, the lever should be set forward, away from the driver. To reduce the glare at night, pull the lever towards the driver.



Manual mirrors

Mirror angle is controlled by the stalk that is located on the inside of the front door(s).

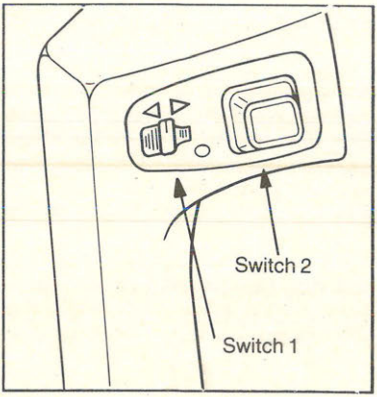
The angle of the mirror can be controlled by moving the stalk.

Electric mirrors (where fitted)

The angle of the mirrors may be adjusted when the ignition is turned to ON. The adjustment control is located on the driver's door armrest.

Switch 1 has three positions; left mirror, neutral and right mirror.

Press the edge of switch 2 in the direction you wish the mirror to move , i.e. top edge of switch to move mirror upwards.



Vanity mirror (where fitted)

For your convenience, a "vanity" mirror is fitted to the underside of the passenger's sun visor.

Manual windows

The door windows are lowered or raised by turning the winders which are fitted to each door.

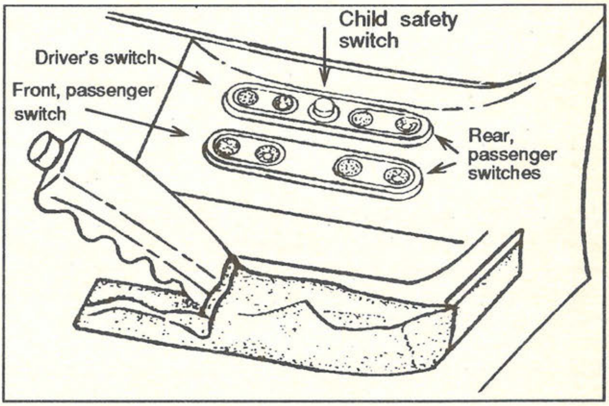
Electric windows (where fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when the system is active.

The master control for the windows is fitted in the centre console. Both rear door windows can also be operated by individual switches located on the rear doors. A "child safety" switch is provided in the master control to turn off the switches located on the rear doors.

To raise the window, push raised section. To lower, push indented section.

To isolate the switches located on the rear doors, press the "child safety" switch. Repress the switch to reactivate the rear switches.



"auto down" - driver's window only

Depress the down button for more than half of a second and remove your finger. The window will continue to open automatically until it is completely down. To interrupt the "auto down" press the up button.

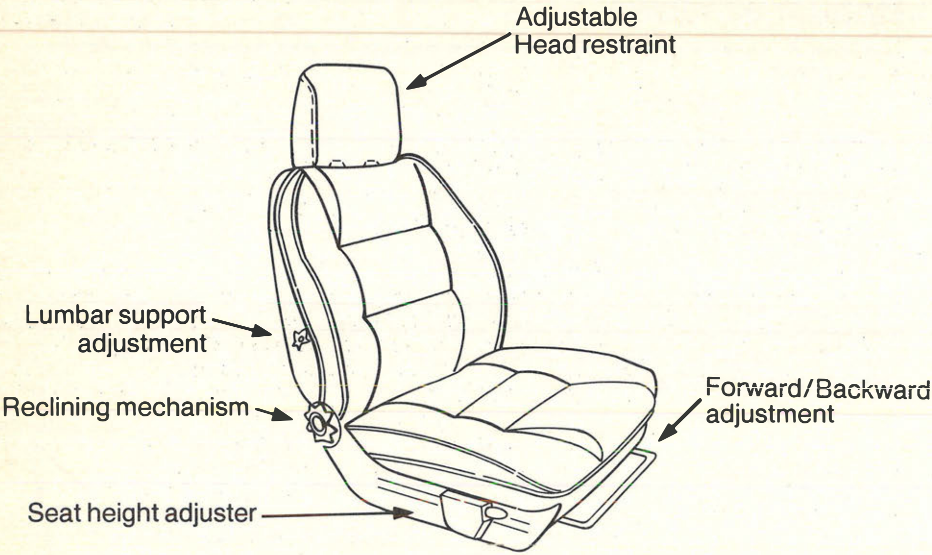
"Tap" the down button to open the window in short steps.

Time delay

A time delay feature enables all the windows to be operated for approximately 40 seconds after a door is opened.

An additional time delay enables all the windows to be operated for approximately 40 minutes after the ignition is turned to off, providing none of the car doors are opened. In which case, the 40 second door timer will override this feature.

The green "active" light on the buttons will go off when the time delays finish.



FORWARD AND REARWARD SETTING Lift the bar at the front of the seat upwards then slide the seat to the desired position. Release the bar. Try to move the seat back and forth to check that the catch is fully engaged. Adjustment should not be made when the car is moving. The seat could move suddenly and cause the driver to lose control.

SEAT HEIGHT ADJUSTMENT (where fitted) The driver's seat height is adjustable by extending the telescopic lever on the seat's outer side and then moving the lever either up or down, as required.

HEAD RESTRAINT This safety feature is not intended to be used as a headrest. It is solely for the reduction of possible injury that may result from a whip-lash neck movement following a vehicle collision. Three height positions are provided. Pull up or push down as required.

LUMBAR SUPPORT (where fitted) This feature is fitted to the driver's seat only and is adjusted by turning the toothed wheel located on the right side of the seat back. The lumbar support can be adjusted to suit the degree of seat firmness that you require to support the lower portion of your back.

RECLINING BACK CONTROL The reclining back is controlled by turning a large toothed wheel at the bottom of the outer side of the seat. The seat back will move in the same direction as the top of the wheel.

CAUTION: To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the car is moving. The fully reclined position should be used only when the car is stationary.

Wagon

To fold down the rear seat:

1. Push down either of the lock buttons located on the upper edge of the back of the rear seat.
2. The seat back can then be pulled forward.
3. Apply pressure to the back of the seat and the safety flap will lock into its correct position.

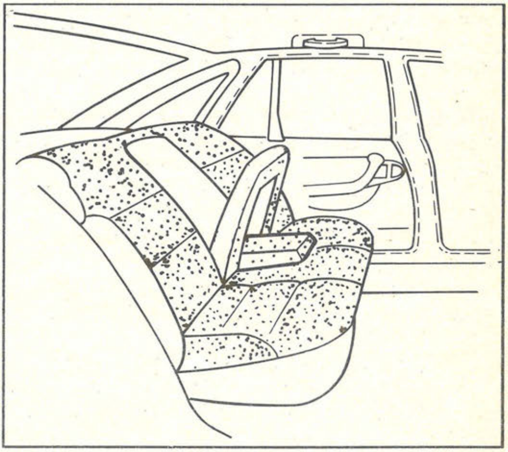
To return the rear seat to its normal position, first press down on the leading edge of the seat back and release the safety flap. Then raise the seat to the upright position. Ensure that the seat back is secured firmly in place and that the seat belts are free.

CAUTION: When converting the rear seat always avoid standing on the driver's side of the car if the car is parked at the kerb. Failure do to so could result in personal injury from passing cars.

Sedan

The middle section of the rear seat may be folded forwards to gain access to the boot area. In addition, on Berlina and Calais models this section contains an arm rest.

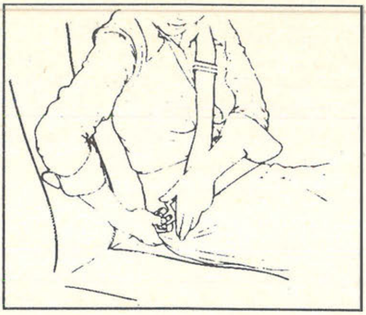
To fold the section forward, pull up the lock button behind the top of the middle section.



Use the loop provided to pull the section down. To return to the upright position, simply push back into place.

On Berlina and Calais models an armrest is provided in the middle section. To fold down armrest, insert hand at top of armrest and pull down. Push up armrest if upright position is required.

Retractor belts



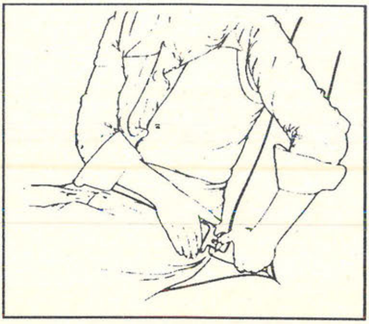
To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retractor belts



To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

Maintenance of seat belts

Check the seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer page 10-5.

Caution: Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE. In some States it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with regular seat belts or an approved child restraint.

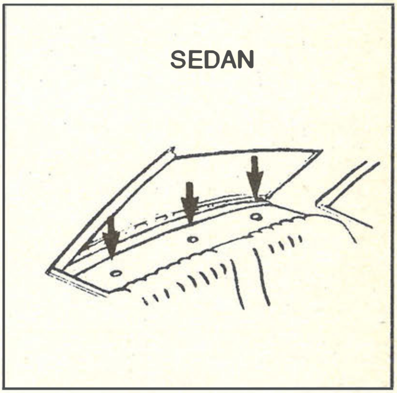
Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF A VEHICLE COLLISION.

Child restraint anchorages

Your car is fitted with anchorage points for child restraints and these are located as follows:

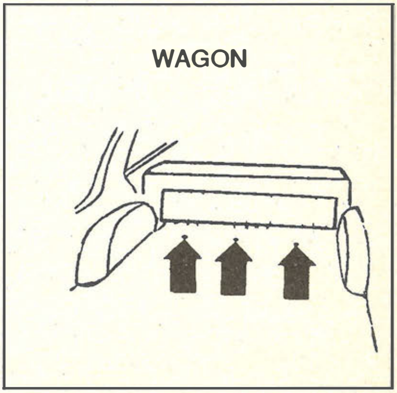
Sedan

Anchorage points are located on the rear window ledge. Remove the plugs and install child restraints with the correct anchor bolts.



Wagon

Anchorage points are located on the floor behind the rear seat. Remove the plugs and install child restraints with the correct anchor bolts.

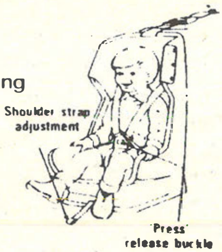


WARNING: Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried an approved child seat restraint (capsule). Check with your local Infant Welfare Centre for availability.

The Holden Child Seat is designed for children weighing 9 to 19 kg, up to 1 metre in height, who are able to sit up alone.



WARNING: Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after is has been worn in a severe impact, even if damage to the assembly is not obvious.

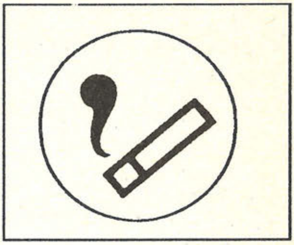
Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

Cigarette lighter



The cigarette lighter is located on the console, between the two front seats. It is operational with the ignition turned to either ON or ACC. To operate, simply press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use.

Note: Any accessory device (car frige etc.) connected into the cigarette lighter socket must not exceed a current draw of 10 amps. Any device exceeding 10 amps should instead be connected to the battery.

Ash tray

The front ash tray is located in the centre console. To use, flip up the hinged cover. To clean, pull up the tray by grasping the cover flap.

Rear ashtrays are located in the rear arm rests. As with the front ash tray, they may be removed for cleaning by flipping up the hinged cover and then pulling out.

Park brake

The park brake lever is mounted on the floor between the front seats.

# To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.

# When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the parking brake is applied.

# NEVER drive the car with the park brake applied.

Manual antenna

To guard against breakage, the antenna may be pushed fully down. To re-extend, you must insert the special key provided into the slots at the base of the antenna to pull up the top of the antenna. The antenna can then be extended for maximum distance reception.

Electric antenna, refer Instrument Panel Chapter, page 1-9

Reading lights (where fitted)

The rear reading lights may be individually turned to OFF, ON or to DOOR. If DOOR is selected, then they will operate in conjunction with the centre dome light, see page 1-9.

Front reading lights may be switched ON or OFF, as required.

Chapter 3

Starting & Driving

Page

3-1 Safety
3-2 Engine Starting
3-3 Manual Transmission
3-4 Automatic Transmission
3-5 Running-in
3-5 Reducing Fuel Consumption
3-6 Driving Precautions

EXHAUST GAS WARNING - (Carbon monoxide poisoning)

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your car is faulty.

To protect against exhaust gas entry into the interior of the car we recommend that the exhaust system and body be thoroughly inspected:

- each time the car is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the car is damaged.

Take the car to your GM-H Dealer if you think your car needs inspecting for any of the above reasons.

DO NOT SIT IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING AND DON'T LEAVE THE CHILDREN OR PETS IN THE CAR EITHER.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE CAR.

Driving with the boot or tailgate open is not recommended. If you must travel with the boot or tailgate open, close all windows, turn the outlet dial of the heater controls to face and the fan to the highest speed. Do not exceed 50 km/h unless necessary.

BEFORE ENTERING THE CAR

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your car is clear.

BEFORE DRIVING OFF

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

PARKING

1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors when outside the car.

CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

1. Apply the park brake firmly and release only after you have started the engine and are ready to drive off.

2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC (where fitted): Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3. Start the engine as outlined below (with your foot off the accelerator).

   For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts. YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO OR DURING STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.

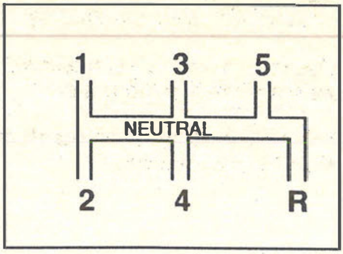
   NOTE: You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may otherwise cause premature engine wear or engine damage.

Flooded engine

Cranking the engine for a lengthy period without it starting could result in *flooding* (too much fuel injected into the engine).

If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position. When the engine starts, allow the accelerator pedal to come up slowly.

This system has 5 fully synchronised forward gears and a non synchronised reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.



When selecting REVERSE gear you must shift the gear lever sideways against spring pressure in order to pass into the gear.

CHANGING UPWARDS (upshifting)
The recommended change speeds at which upwards gear changes should be made (under normal conditions) are shown in the chart.

Upshifting at higher road speeds may be necessary according to varying driving conditions such as, vehicle load, road gradient and during overtaking manoeuvres.

RECOMMENDED CHANGE SPEEDS

Gear Change	Shift speed (km/h)	
	Normal Conditions	For max * Economy
1st - 2nd	20	20
2nd - 3rd	35	30
3rd - 4th	50	40
4th - 5th	70	55

* When operating under light load/low throttle conditions.

Operating notes

# When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.

# Never attempt to engage reverse gear until the car has completely stopped. A slight pause between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the back-up lights will operate.

# Shift the gear lever with a moderate effort to allow time for the transmission synchronizers to work properly.

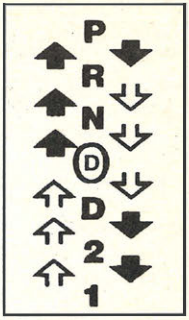
# To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.

# When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or brake pedal.

# When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.

# Do not overspeed the engine when shifting down to the next lowest gear.

# 4th gear provides direct drive and 5th gear, overdrive.



Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

You may shift *without* raising the handle into any positions indicated by the white arrow.

NOTE: The engine will *not* start unless the selector is in P(park) or N(neutral).

P (park)	This stops the rear wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select *P* until your car is fully stopped.
R (reverse)	Never select *R* until your car is fully stopped. Reversing lights will operate when *R* is selected and the ignition is on. After reversing, make sure the car has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the car is still moving.
Ⓓ (overdrive)	This is the most effective position for normal or freeway driving. The overdrive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to overdrive) for the existing load and driving conditions.
D (drive)	Drive is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift to first, second or third gear as conditions require. Overdrive is excluded.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little without using the brake. The transmission will shift to first or second gear as required. Shift back into the overdrive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed on a steep gradient. Remember to shift back to overdrive position so that the transmission will again upshift into higher gears.

# The transmission will not downshift to 1st gear when speed is above 60 km/h.

# Don't rev the engine with the brakes on in either 1, 2, D, overdrive or R. This will overheat the transmission.

# Don't rev the engine to hold the car on a slope. Use the brakes.

# Don't coast the car in N - this lessens your control and the engine braking power.

Refer page 6-6 when checking automatic transmission fluid level.

"Running-in"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your car's future performance and economy.

For the first 500 kilometres, don't exceed 80 km/h.

Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time. Therefore avoid using the cruise control while "running-in". However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

How to reduce fuel consumption

1) **Vehicle Maintenance** Maintain your car in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 10-1. This will ensure items such as spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption and peak engine performance.

2) **Tyre pressure** Keep the tyres at the recommended pressures. Underinflated tyres creates extra rolling resistance which contributes to increased fuel consumption, refer page 6-10.

3) **Wheel alignment** Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

4) **Warm ups and excessive idling** Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

   You should also avoid excessive engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

5) **Accelerating, driving & braking** Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle accelerations - they're certain fuel wasters.

   Drive the car at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

NOTE: "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Brakes

# Power assisted brakes, which are fitted to your car, utilise vacuum from the engine when it is running. Never let the car run down steep grades without the engine running. Never coast with the engine switched off.

# Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

# Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

# Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

Power steering (where fitted)

# Power assisted steering, which is fitted to your car, has been designed to reduce steering effort. It uses hydraulic pressure to lighten steering loads and is designed so that "road feel" is retained. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates unnecessary high operating pressures within the system.

# If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the car can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow articles in the luggage compartment. For wagons, loads stowed in the luggage area should be firmly secured.

Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

Chapter 4

Accidents & Emergencies

Page

4-1 - What to do at the Scene of the Accident
4-2 - Medical Assistance
4-3 - Hazard Warning Flashers
4-3 - Towing a Car
4-4 - Spare Wheel Location
4-5 - Flat Tyre
4-7 - Engine Overheating
4-9 - Flat Battery
4-11 - Engine Belt Replacement

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.
The following notes may help.

Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident just to be a spectator.

Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.

Give what assistance you can to any injured persons. (See Part 3. Medical assistance).

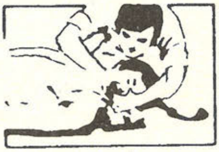
Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

Part 3. Medical assistance

Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

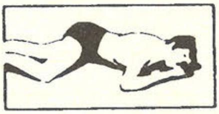
Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.



Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

# You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

# Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the "coma position" illustrated here.



Lay the person on one side and - if it will not aggravate any injures - then:
Bend the uppermost knee until the thigh is at right angle to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

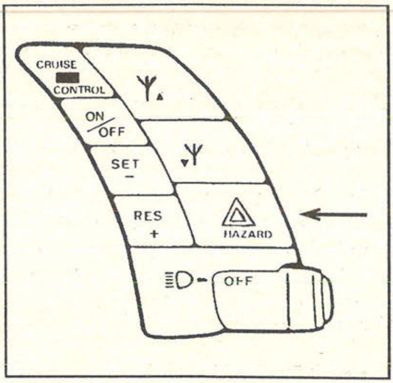
Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.

If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

Hazard warning flasher

Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.



# Turn on the hazard warning flasher by pushing the switch located on the right side of the instrument cluster. The arrow symbols on the instrument panel will both flash simultaneously and all four external signal lights will flash continuously.

# The hazard warning flasher will work with the ignition either off or on.

# To turn off, repress the switch.

Towing a disabled car

Proper lifting or towing equipment is necessary when lifting or towing the car to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your car may be towed on all four wheels in the following manner:

# Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.

# Place transmission in neutral position and release the park brake.

# Switch the ignition key to "ACC" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.

# For the sake of safety and to prevent damage to the car it is advisable to avoid jerky movements and to drive slowly during towing operations.

# Remember that power assist for brakes and power steering (where fitted) will not be available when the engine is off.

# To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your car, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.

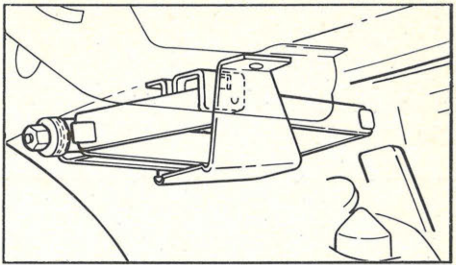
# Cars fitted with automatic transmissions must not be towed for more than 55 km or at over 55 km/h unless the propeller shaft is removed.

# Cars with damaged transmissions must not be towed unless the propeller shaft is removed.

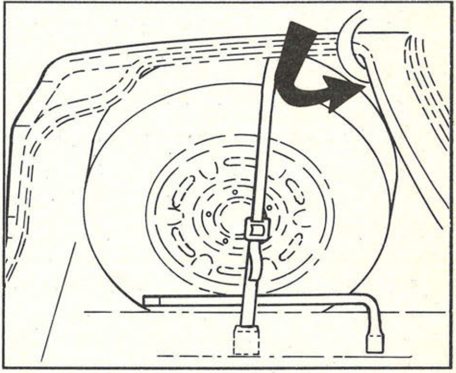
# Only the driver should be in a towed car.

Sedan

The spare wheel, jack and wheel wrench are stored inside the boot.



The spare wheel and wheel wrench are on the left side of the boot. Push strap buckle upwards to release.

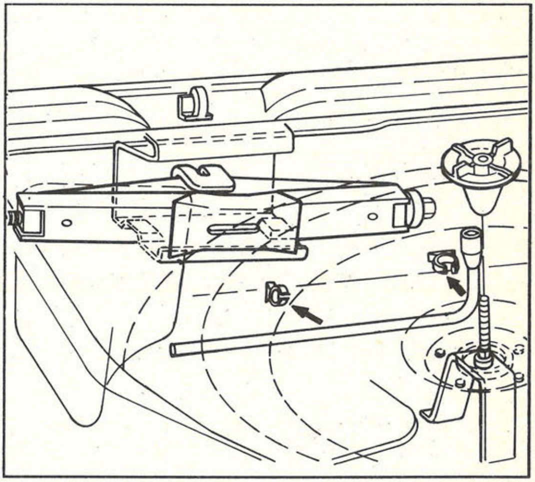


Using the wheel wrench, loosen the jack which is located under the parcel shelf, pointing towards you. The jack can then be pulled out towards you.

Note, when reinstalling the spare wheel, thread lower strap though buckle on upper strap, slip wheel wrench through loop, then tighten strap firmly by the end of the strap downwards.

Wagon

The spare wheel, wheel wrench and jack are stored under a cover in the rear, load area.



~ Open the tailgate and roll the carpet forwards.

~ 14" wheels - unclip the spare wheel cover then lift cover up. 15" wheels - unscrew the centre retaining nut and lift up cover.

~ Unscrew the wheel retaining nut and remove the spare wheel.

~ The wheel wrench and jack are located at the very rear of the spare wheel compartment. First, unclip the wheel wrench (below the jack) then, using the wheel wrench, loosen off the jack. The jack can then be pulled to the left and out.

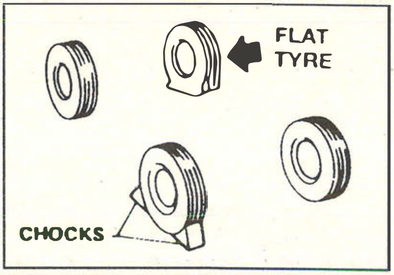
CAUTION:
# Use jack only for lifting car when changing wheels.
# Never get beneath the car when it is only supported by the jack.
# Do not start or run the engine while the car is only supported by the jack.
# All passengers should be out of the car when it is being jacked.
Use jack only at the designated lifting points. Use in other locations can cause vehicle damage.

1. Park on level surface and set parking brake firmly.

2. Remove the ignition key and place manual transmissions in REVERSE gear or automatic transmissions in PARK.

3. Remove the jack, jack handle, wheel wrench and spare wheel (see previous page).

4. Block the wheel diagonally opposite the jacking position.



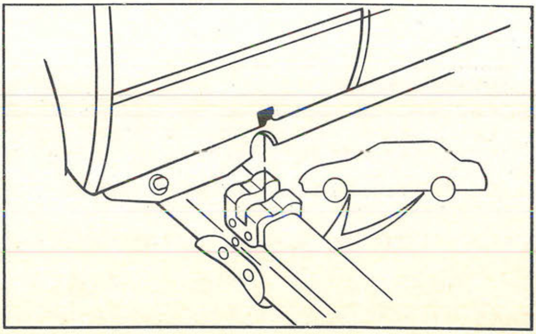
5. Remove the wheel trim:

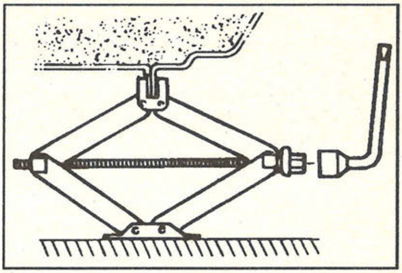
   Calais models, remove the centre cap by inserting the handle end of the wheel wrench between the wheel and the centre cap at the slots provided and gently lever off.

   Models (except Calais), remove the whole, wheel trim by inserting the handle end of the wheel wrench between the wheel and the wheel trim. Working around the wheel, gently and evenly lever off the wheel trim

6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.

7. Place jack below the jack location nearest the wheel to be changed. There are four jack locations, two each side at the front and two each side at the rear.





8. Raise the jack to engage the "U" shaped lifting foot of the jack over the underbody flange at the jack location.

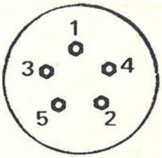
   Ensure that the jack is not tilted and that the base is resting squarely on the ground.

CAUTION: Failure to position the jack as described above could result in serious personal injury or car damage caused by the car slipping off the jack.

9. Raise the car until the wheel is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

10. Remove the wheel from the car and change it over with the spare.

11. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.



12. Lower the car completely and remove the jack.

13. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

14. Replace the wheel trim:

    Calais Models, locate the centre cap at the notches provided and push on by hand.

    Models (except Calais), locate the valve in the valve hole provided in the wheel trim. Working around the wheel trim, use several light blows with the palm of your hand to push on the wheel trim. It may be necessary to protect the hand during this operation.

15. Stow the jack, jack handle, wheel wrench and flat tyre in the rear of the car, as shown on page 4-4.

CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 125 Nm.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown as improperly tightened wheel nuts could eventually allow the wheel to come off while the car is moving!

If using a jack other than the one supplied with the car, refer page 6-18 for lifting positions.

CAUTION: If the engine should overheat, as indicated by the temperature gauge reading or if you suspect there is a serious overheat condition immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or severe car damage.

If the coolant temperature gauge needle should move all the way to the "H" position and remain there for more than 30 seconds, pull out of the traffic as soon as it is safe to do so and stop the car. Leave the engine idling for a few minutes, whilst you step out of the car to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within this time then STOP the engine, turn the ignition key to OFF and proceed as follows.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the level of coolant in the radiator surge tank, refer page 6-5 if unsure.

CAUTION: Do not remove the coolant surge tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

If coolant needs to be added, wait until the engine has cooled sufficiently, cover the cap with a thick cloth, turn slowly anti-clockwise and remove. Top up the surge tank WHILE THE ENGINE IS IDLING. Replace the cap and leave the engine idling for at least 5 minutes, as it will take at least this time for the coolant to flow back into the radiator.

If, after taking one or more of the actions on the previous page, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

# climbing a long hill

# stopping immediately after high speed driving

# idling for long periods in traffic

# towing a heavily laden trailer or caravan.

You should avoid operating your car for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to page 6-5 which gives maintenance instructions to help protect your cooling system from overheating.

CAUTION (AUSTRALIAN VEHICLES ONLY):DO NOT attempt to "push start" or "tow start" your Commodore or Calais. These cars are fitted with a catalytic converter and if uncombusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.

If your car will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

Jump starting

CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

# Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.

# Do not smoke near a battery.

# Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.

# Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.

# Be sure any batteries that have filler caps are properly filled with fluid.

# Remove rings, metal watch bands and other metal jewellery before working around the battery.

# Carefully follow each step in the jump starting procedures.

# Never use a quick charger to start your engine.

# If you have a telephone fitted to your car, you should remove the fuse for the telephone before jump starting. Remember to reinstall the fuse afterwards.

1. The battery of your car has a negative earth and a 12 volt rating. The battery in the other car (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. So, check the specifications in the other car's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used .

2. Position the two cars so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and all lights and accessories in both cars, except the hazard warning flasher or any lights needed for the work area.

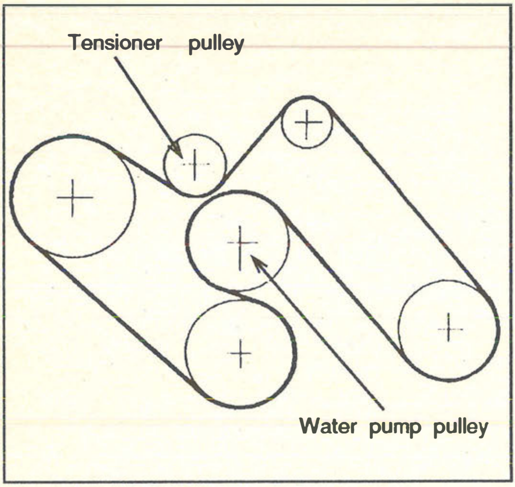
3. Attach one end of the first jumper cable to the positive terminal of the other car's battery (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the same cable to the positive terminal of your car's battery.

4. Attach one end of the second jumper cable to the negative terminal (identified by a black colour, - or N on the battery case, post or clamp) and the other end to a solid stationary, metallic point on your car's engine. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF CAR'S BATTERY.

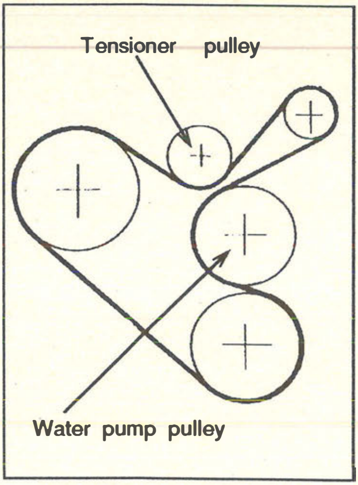
5. When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the other car and run the engine at a moderate speed. Then start the engine in your car.

7. When the engine starts, leave it running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.



If car fitted with air conditioning



If car **does not** have
air conditioning

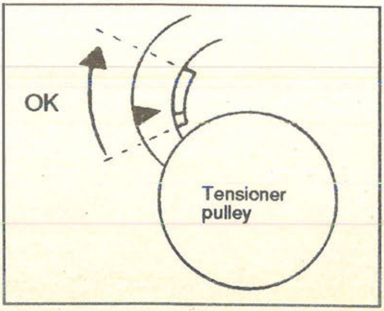
If the engine accessory drive belt is broken, replacement is as follows:

- Feed the belt over the pulleys as shown - except for the water pump pulley.
- Put an 18mm ring spanner over the bolt in the centre of the tensioner pulley. Use the spanner to pull the (spring loaded) tensioner pulley upwards.
- Feed the belt around the water pump pulley. Release the spanner.

When the engine is started the belt will be automatically adjusted.

Removal of the belt is the same as replacement, that is, you must remove belt tension by pulling the tensioner pulley upwards and whilst held up, take off the belt.

Note: If the belt length indicator arrow on the tensioner is in range shown, then the belt length is satisfactory. When the belt length indicator arrow reaches or is below the left hand end of the quadrant, the belt is no longer servicable and must be replaced.



Chapter 5

Warranty, Authorised Holden Dealers, Customer Assistance,

Page

5-1 - **New Vehicle Warranty**
5-2 - Special Notice to Owners
5-3 - Common Warranty Questions & Answers

Authorised Holden Dealers

5-6 - New South Wales
5-8 - Australian Capital Territory
5-9 - Victoria
5-10 - Tasmania
5-11 - Queensland
5-12 - Northern Territory
5-13 - South Australia
5-14 - Western Australia

5-15 - **Customer Assistance**

Note: Dealership names and addresses are correct at time of printing. They may change from time to time without notice.

GENERAL MOTORS - HOLDENS AUTOMOTIVE LTD.

NEW VEHICLE WARRANTY

GENERAL MOTORS - HOLDEN'S AUTOMOTIVE LTD. , HEREINAFTER HOLDEN'S, WARRANTS THAT IT WILL MAKE GOOD WITHOUT CHARGE, ANY DEFECT WHICH APPEARS IN THE VEHICLE IDENTIFIED IN THE VEHICLE IDENTIFICATION CERTIFICATE FOUND ON THE INSIDE OF THE FRONT COVER.

Provided

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:
    (a) before the vehicle has travelled a distance of 20,000 km or,
    (b) within 12 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 12 months of the date when is was first placed into service by the Dealer)

    whichever comes first, and

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

and

3. the Dealer has determined that the defect complained of is one of workmanship and *is not* caused by

    (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect
    (b) operation of the vehicle after it is known to be defective
    (c) accident or deliberate act
    (d) atmospheric fallout or flood, hail, salt, etc.
    (e) failure to carry out proper maintenance service
    (f) use of incorrect types and grades of fuel, oil or lubricants
    (g) alteration or modification of the vehicle by any party not authorised by Holden's
    (h) the fitting of parts or accessories not marketed by Holden's
    (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S, BY REPLACEMENT.

Excluded from this Warranty are Why

- * defects in tyres (these being warranted by their manufactures), and services such as engine tuning, brake adjustment, replacement of air and oil filter, wiper rubbers, etc. which are required as part of normal vehicle maintenance.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all right conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

AVAILABILITY OF SERVICE AND PARTS AFTER WARRANTY

Holden's has franchised dealers in many parts of Australia for the sale of service parts and the provision of service to owners of Holden's products. Every endeavour is made to ensure that such dealers carry adequate stocks of service parts and are equipped to provide satisfactory service, but Holden's does not make any promise that after the expiration of the warranty such parts or service facilities will be available, or available at any specific location or at any particular time.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's in its published sales literature, and the Company does not accept any such unauthorised action.

WARRANTY ON HOLDEN'S REPLACEMENT PARTS

Holden's warrants in respect of Holden's parts and accessories required as replacement parts, that it will make good by repair or at its option by replacement any defect occurring in any such Holden's parts and accessories within 12 months from the date of acquisition or in the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer or Service Dealer before such vehicle has travelled a distance of 20,000 kms from the date of installation, whichever first occurs.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the terms of the Holden's Warranty provided with your new car.

The following are some of the most frequently asked questions for which detailed answers have been provided.

1. Q. How do I go about obtaining Holden's Warranty Service?

A. It is the responsibility of the Selling Dealer to provide Holden's Warranty Service, therefore you should take your car to that Dealer whenever Holden's Warranty Service is required. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook are required by the Dealer whenever you request Holden's Warranty Service.

Note that the 1,500 kilometre Warranty Service may be carried out by any Holden Dealer, provided you have a letter of introduction from the Selling Dealer. This letter must be arranged prior to obtaining the 1,500 kilometre service.

2. Q. What should I do if, in an emergency, Holden's Warranty Service is required and an Authorised Holden Dealer is not available to provide such service at the time?

A. If, in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your car to be operated safely and it is not practical for you to have that service performed by an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your car to be operated safely) may be performed by any other qualified service technician or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden's Warranty Service. You must also take your car to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden's Warranty Service as soon as possible.

3. Q. What should I do if my car becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?

A. You should contact the nearest Authorised Holden Dealer as soon as possible and arrange for that Dealer to carry out the required Holden's Warranty Service.

4. Q. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty Service?

A. All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty Service is to be carried out by the Servicing Dealer it is your responsibility to deliver your car to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your car cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your car to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden's Customer Assistance (refer page 5-15) to obtain guidance.

5. Q. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's New Vehicle Warranty?

A. No, these items are not covered. The Holden's New Vehicle warranty only covers the repair, replacement or adjustment of those parts of your car which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your car will be recognised under the Holden's New Vehicle Warranty. The rights and remedies which are available to you under any relevant Statutory Enactment or otherwise, at law, in connection with any such claim for compensation, you must pursue outside the ambit of the Holden's New Vehicle Warranty.

6. Q. Will I have to pay for maintenance costs during the Warranty Period?

A. Maintenance costs are not covered by the Holden's New Vehicle Warranty. However, the scheduled 1,500 kilometre service specified in chapter 10 of the handbook is free of charge (except for any lubricants used), provided that your car has been operated under normal operating conditions (refer page 10-2) and provided also that no modifications (other than a modification made by or at the direction of Holden's) has been made to your car. The Maintenance Schedules in this handbook specify the minimum maintenance required for your car operating under normal conditions.

The Maintenance items, except where they are required as a result of defects in materials or workmanship, for which you will be required to pay include:-

* Engine tune-up; including replacing spark plugs.
* Replacement of all filters.
* Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after the 1,500 kilometre service.
* Adding to or replacing lubricants.
* Adding to or replacing air conditioning refrigerant,
* Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
* Wheel balancing - after 5,000 kilometres.
* Wheel alignment
* De-dusting or de-glazing of brake linings or pads - after the 1,500 kilometre service.
* Brake lining wear or damage
* Brake disc pad or disc wear
* Battery re-charging
* Paint, bright metal finish and trim, due to normal deterioration.
* Body panel adjustment - after the 1,500 kilometre service.
* Door, or bonnet lock adjustments.
* Glass or channel adjustments - after the 1,500 kilomtre service.
* Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 1,500 kilometre service.
* Chipped glass or breakage.
* Torn or damaged floor mats or carpets.

7. Q. Are my tyres covered by the Holden's New Vehicle Warranty?

A. No. The tyres fitted to your car are covered by a separate warranty provided by the tyre manufacturer. An Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

8. Q. Are Holden's parts and accessories covered by warranties?

A. If you purchase a Holden's part or accessory from an Authorised Holden Dealer it will by warranted by that Dealer under the Holden's parts and accessories Warranty against defects in materials or workmanship for a period of 12 months from the date at which you purchased it. In the case of a Holden's part or accessory which has been installed in a car by a Holden Dealer or a Service Dealer it will be warranted for a period of 12 months or a distance of 20,000 kms from the date of installation, whichever occurs first.

Maintenance items such as filters, spark plugs, wiper blades and brake pads/linings will require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

9. Q. Would my car's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden's?

A. The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives are *not* recommended; their use will not only increase operating costs, but may be detrimental to the operation of your car.

N.S.W. Metropolitan

ARNCLIFFE **Suttons Motors (Arncliffe) Pty Ltd** - 93 Princes Highway
ASHFIELD **Muirs Motors (Ashfield) Pty Ltd** - 252 Parramatta Road
BALGOWLAH **Mitchell Cox Holden** - 164 Condamine Street
BAULKHAM HILLS **Tony Packard Holden** - Cnr Victoria Ave & Windsor Rd
BLACKTOWN **West City Holden** - 120~128 Sunnyholt Road
CAMPBELLTOWN **Paul Wakeling Holden** - Cnr Blaxland & Campbelltown Rds
CHULLORA **Suttons Motors (Chullora) Pty Ltd** - Cnr Hume Hwy & Waterloo Road
CROWS NEST **J.N. Caldwell (Holdings) Pty Ltd** - 1 Alexander Street
DEE WHY **Barry Smith Holden** - Cnr May & Mooramba Roads
GORDON **Sundell Holden** - 836 Pacific Hwy & McIntyre Street
HOMEBUSH **Suttons Motors (Homebush) Pty Ltd** - 112 Parramatta Road
HOMEBUSH **Gilbert & Roach Pty Ltd** - 167~173 Parramatta Road
KINGSFORD **John Pellegrini Holden** - 263~271 Anzac Parade
LAKEMBA **Nash Holden** - 1018 Canterbury Road
LIVERPOOL **A.C. McGrath & Co Pty Ltd** - Cnr Castlereagh St & Hume Hwy
MIRANDA **Greg Ball Holden** - 1~3 Kiora Road
NEWPORT **Mobil-Newport** - Cnr Barrenjoey Rd & Seaview Ave
PADSTOW **Purnell Bros Holden** - 19 Davies Road
PARRAMATTA **Boyded Parramatta** - 65 Church Street
PENNANT HILLS **Les Vagg Holden** - 351~355 Pennant Hills Road
PENRITH **Lance Motors (Penrith) Pty Ltd** - 39~47 Henry Street
ROCKDALE **Boyded Rockdale** - 571 Princes Hwy
RYDE **Hunter Holden** - 603~605 Victoria Road
ST. MARY'S **Lance Motors Pty Ltd** - Cnr Glossop & Harris Streets
WAITARA **Suttons Motors** - 90 Pacific Hwy
WARRAWONG **Dwyers Warrawong** - King Street
WINDSOR **Erichsen Motors** - 122 George Street

N.S.W. Country

ADELONG **Robert Broadhurst Holden** - Tumut Street
ALBURY **Preston Motors Albury** - 647~657 Dean Street
ARDLETHAN **Carr's Engineering** - 4 Mirrool Street
ARMIDALE **New State Motors** - 103 Rusden Street
BALLINA **Quayside Motors** - Pacific Highway
BARHAM **Hall's Motors Pty Ltd** - 44 Noorong Street
BATHURST **Bathurst Motors Pty Ltd** - 54 Durham Street
BEGA **Norm Honey Motors** - 247 Carp Street
BELLINGEN **E.H.H. Raymond Pty Ltd** - Broadway
BELMONT **Challenge Holden** - 444 Pacific Highway
BLAYNEY **Mitchell Holden** - 98 Adelaide Street
BOMBALA **Delcott Engineering Pty Ltd** -Maybe Street
BOURKE **Bowden & Co (Bourke Pty Ltd)** - Richard Street
BOWRAL **Emile Wheeler Holden** - 380 Bong Bong Street
BREWARRINA **Hertslet Holden** - Bathurst Street
BROKEN HILL **Donlee Motors Pty Ltd** - Cnr Galena & Raklow Streets
CANOWINDRA **Canowindra Motors** - Gaskill Street
CARDIFF **Brian Kelly Holden** 35~39 MacQuarie Road
CASINO **McKinnon Holden** - 142 Barker Street
CESSNOCK **Geoff Boyd Holden** - 173~175 Wollombi Road
COBAR **Cobar Motors Pty Ltd** - Barton Street
COFF'S HARBOUR **Geoff King Holden** Cnr Pacific Hwy & Thompson Rd
COLLARENEBRI **Bruce's Garage & Service Station** - Wilson Street
COOLAMON **Coolamon Motors** - Cowabbie Street
COOMA **Urquhart & Nicholson Motors Pty Ltd** - 66~70 Sharp Street
COONABARABRAN **Alan McWhirter Holden** - John Street
COONAMBLE **Moody's Motors** - Aberford Street
COOTAMUNDRA **Jenkins Garage** - 111 Wallendoon Street
COROWA **R.W.E. Fraser & Co** - 218 Honour Avenue
COWRA **Waugoola Motors Pty Ltd** - Kendal Street

N.S.W. Country cont.

CROOKWELL **Crookwell Autos** -114 Goulburn Street
DENILIQUIN **Burchfield Bros & Co** -112~114 End Street
DORRIGO **Phil Noble Motors** - 46~48 Hickory Street
DUBBO **Graeme Coxon Holden** - Cnr Darling & Bultje Streets
EDEN **Ron Doyle** -113 Imlay Street
FINLEY **Riverina Garage Finley** -104 Murray Street
FORBES **Paddison & Co** - Cnr Rankin St & Court Land
GILGANDRA **Whitemans Holden** -106 Warren Road
GLEN INNES **Kingdom & Graham Motors** - 167 Grey Street
GLOUCESTER **Grahame's Garage Pty Ltd** -1 Park Street
GOSFORD **Noble Holden** - Pacific Highway
GOULBURN **Geissler Motors** - 279~298 Auburn Street
GRAFTON SOUTH **Nev Devir Holden** - 71~ 75 Spring Street
GRENFELL **Terry Carroll Motors Pty Ltd** - 40 Alexandra Street
GRIFFITH **Auswild's** -152 Yambil Street
GULARGAMBONE **Gulargambone Motors** - Bourbah Street
GUNDAGAI **McPherson Motors Pty Ltd** - Sheridan Street
GUNNEDAH **Namoi Valley Motors** - 48 Barber Street
GUNNING **Bailey's Garage Pty Ltd** - Yass Street
GUYRA **Burgess Garage Pty Ltd** - 131~143 Bradley Street
HARDEN **Ginty & O'Leary** - Cnr Station & Albury Streets
HAY **Royce Curtis Motors** - 168 Lachlan Street
HOLBROOK **Lieschke Motors Pty Ltd** - Albury Street
INVERELL **Gaukroger Sales Pty Ltd** - Vivian Street
JERILDERIE **Jerilderie Motors** - Jerilderie Street
JUNEE **Junee Motors** - Seignior Street
KANDOS **Chrisfield Holden** - 11 Angus Street
KATOOMBA **Arthur Brown Holden** - 136 Great Western Hwy
KEMPSEY **Thoroughgood Motors** - 118~132 Belgrave Street
KIAMA **Glen Fulton Holden** - 35~41 Collins Street
KURRI KURRI **Fren's Holden** - 281 Lang Street
KYOGLE **O & A Holden** - 128~134 Summerland Way
LEETON **John Ryan Holden** - 47 Pine Street
LISMORE **John Chant Motors Pty Ltd** - 21~27 Carrington Street
LITHGOW **Lithgow Motors** - 255 Main Street
MACKSVILLE **Eastland Auto Centre** - 18~22 Cooper Street
MACLEAN **O'Halloran Motors** - 175 River Street
MAITLAND **R.H. Taylor Holden** - 557~567 High Street
MOREE **Keith Haddad Holden** - Cnr Boston & Herber Streets
MORUYA **Surfair Holden** - 88 Vulcan Street
MULLUMBIMBY **Tony Carsburg Holden** - 2 Argyle Street
MURWILLUMBAH **Turner Holden** - 29 Prospero Street
MUSWELLBROOK **Upper Hunter Motors Pty Ltd** - 116 Bridge Street
NARRABRI **Allan Cooper Holden** - 181 Maitland Street
NARROMINE **L.E. Stanley Pty Ltd** - Dandaloo Street
NEWCASTLE **Young & Green Pty Ltd** - 745 Hunter Street
NOWRA **Glendon Motors** - 301~313 Princes Highway
NYGAN **Nygan Motors** - 63 Pangee Street
ORANGE **Canobolas Holden** - 348 Summer Street
PARKES **Go Motors** - Cnr Mitchell & Clarinda Streets
PEAK HILL **S.Leary & Sons Pty Ltd** - Mingelo Street
PORT MACQUARIE **Todd Holden** - 16~20 Clarence Street
QUIRINDI **Browning Motors** - 82 Henry Street
SCONE **Upper Hunter Motors (Scone)** - 91 Kelly Street
SINGLETON **Lancaster Holden** - 80 John Street
SPRINGWOOD **Kerry's Motors Pty Ltd** - 28 Great Western Highway
TAMWORTH **Kensells Holden** - Cnr Bourke St & Kable Ave
TAREE **Hardes Auto House** - 61 Manning Street
TEMORA **Rod Lovering Holden** - 2 Stockinbingal Road

N.S.W. Country cont.

TENTERFIELD **Sexton & Green (Sales & Service) Pty Ltd** -148 Rouse Street
TORONTO **Young & Green (Toronto) Pty Ltd** - Carey Street
TUMBARUMBA Broadhurst Autos - Albury Street
TUMUT **Tumut Auto Sales & Service Pty Ltd** - Fitzroy Street
ULLADULLA **Auto Diesel Co Pty Ltd** - 150 Princes Highway
TWEED HEADS **Tweed Motors Pty Ltd** - 25 Tweed Street
WAGGA **Wagga Motors Pty Ltd** - 32 Dobney Avenue
WALCHA **Bowden's Garage Pty Ltd** - Derby Street
WALGETT **Walgett Garage Pty Ltd** - Wee Waa Street
WALLA WALLA **D.E. Lieschke & Son Pty Ltd** - Commercial Street
WARIALDA **Roger Moore** - Hope Street
WARILLA **Wilson's Warilla Pty Ltd** - 29 Shellharbour Road
WARREN **Fuller Bros** - Dubbo Street
WELLINGTON **Gersbach's Garage Pty Ltd** - 92 Lee Street
WEST WYALONG **West Wyalong Motors** - 183 Main Street
WOLLONGONG **Dwyers Pty Ltd** - 31~33 Crown Street
WOODENBONG **Frawley Bros Holden** - Unumgar Street
WYONG **W.M. Holden** - Pacific Highway
YASS **Bill Nesbitt Holden** - 221 Comur Street
YOUNG **Harden & Geelan Holden** - 48 Boorowa Street

A.C.T.

BELCONNEN **Gerald Slaven Holden** - Josephson Street
BRADDON **Beazley & Bruce** - 44 Mort Street
PHILLIP **Commonwealth Motors Pty Ltd** - 158 Melrose Drive

Vic. Metropolitian

BERWICK **Barry Bourke Holden** - 755 Princes Highway
BRAYBROOK **Kevin Dennis Holden** - 272 Ballarat Road
BUNDOORA **Watson Holden** - 413 Grimshaw Street
BURWOOD **Penfold Holden** - 63 Burwood Road
CAULFIELD **Booran Holden** - 1049 Glenhuntly Road
CHELSEA **Harrison Holden** - 370 Nepean Highway
CHELTENHAM **Balmoral Holden** - 1212 Nepean Highway
DANDENONG **Graeme Blanchard Holden** - Princes Highway
ELSTERNWICK **Reg Hunt Holden** - 77 Nepean Highway
ESSENDON **Preston Motors (Essendon) Pty Ltd** - 205~211 Keilor Road
FAWKNER **Mantello Holden** - 1263 Sydney Road
FERNTREE GULLY **Neilson Holden F.T.G.** - 980 Burwood Highway
FOOTSCRAY **Alan Mance Holden** - 435 Barkly Street
FRANKSTON **Noel Gould Holden** - 140 Dandenong Road
GEELONG **R & B Smith Holden** - 510 Moorabool Street
GEELONG **Winter & Taylor (Sales) Pty Ltd** - 23 Cavendish Street
GLEN WAVERLEY **Geoff Brady Holden** - 565~577 Springvale Road
HASTINGS **Westernport Holden** - 843 Frankston~Flinders Road
LILYDALE **Noel Dight Holden** - 344 Main Street
MORNINGTON **Peninsula Holden** - 976 Nepean Highway
OAKLEIGH **Garry & Warren Smith** - 1575 Dandenong Road
RINGWOOD **Patterson Cheney Holden** - 45~57 Maroondah Highway
SOUTH MELBOURNE **Patterson Cheney Holden** - 132 Sturt Street
WERRIBEE **Ballan Holden** - Princes Highway
WEST MELBOURNE **Reg Hunt Holden** - 577 King Street

Vic. Country

ARARAT **David Reid Motors** - High Street
BAIRNSDALE **The Big Garage** - 199 Main Street
BALLARAT **Peter Amor Motors** - 6~16 Mair Street East
BENALLA **Arnott's Motors** - 88~90 Bridge Street
BENDIGO **Ron Poyser Holden** - Cnr High & Myrtle Streets
BIRCHIP **R.L. & C.J. Bales** - 38 Cumming Avenue
BOORT **Jaron Motors** - 55 Godfrey Street
CAMPERDOWN **Alan Rogers Holden** - 114~116 Manifold Street
CASTERTON **Coxons of Casterton** - 139 Henty Street
CASTLEMAINE **Ron Poyser Castlemaine** - Barker Street
CHARLTON **K.V. Charlton** - 70 High Street
COBRAM **Frank D'Alberto Holden** - 56~60 Punt Road
COHUNA **Humphrey Motors Pty Ltd** - 13~15 Market Street
COLAC **Parker Bros Motors Co** - 224 Murray Street
COLERAINE **Coleraine Auto Repairs** - Whyte Street
CORRYONG **Middleton Motors Pty Ltd** - Hanson Street
DAYLESFORD **K.R. Little Pty Ltd** - Vincent Street
DERRINALLUM **Urquhart Motors** - Main Street
DIMBOOLA **Westerfield Motors Pty Ltd** - 64 Lloyd Street
DONALD **O.A. Shilton & Sons Pty Ltd** - Wood Street
ECHUCA **Echuca Motors** - 148 Murray Valley Highway
EUROA **Croxford Holden** - 41 Clifton Street
FOSTER **Ray Dower Motors** - 78 Main Street
HAMILTON **Slorach Autos Pty Ltd** -261 Grey Street
HOPETOUN **Hopetoun Motors** - Lascellas Street
HORSHAM **Ranley Holden** - 22 O'Callaghans Parade

Vic. Country cont.

KANIVA **Kaniva Motors** - 82 Commercial Street
KERANG **Hall & Sons (Kerang) Pty Ltd** - 86 Wellington Street
KOOWEERUP **Gray Blakey Holden** - Station Street
KORUMBURRA **Graham Wallace Holden** - 42 Commercial Street
KYABRAM **D'Alberto Holden** - 60 McEwen Road
KYNETON **Mollison Motors Pty Ltd** - 167 Mollison Street
LEONGATHA **Gleeson Holden** - 37~43 Bair Street
MAFFRA **Knight Paterson Holden** - Johnson Street
MANSFIELD **Agpower Holden** - High Street
MARYBOROUGH **Graham Jacka Holden** - 35 Nolan Street
MILDURA **Stuart & Harrison (Sales) Pty Ltd** - 24~32 Deakin Avenue
MINYIP **Munro Sales & Service** - 8 Market Street
MIRBOO NORTH **Ridgeway Motors** - 106 Ridgeway Road
MOE **Derek Scully Holden** - Anzac Street
MORTLAKE **W. Christian (Mortlake) Pty Ltd** - 107 Dunlop Street
MURRAYVILLE **Peers Motors** - McKenzie Street
NATHALIA **BHB Motors** - 6 Blake Street
NHILL **Ivan Morrow Motors Pty Ltd** - 71~73 Nelson Street
NULLAWIL **Nullawil Motors & General Engineers** - Calder Highway
ORBOST **Merlin Motors** - Stanley Street
PORTLAND **Reynolds Holden** - 15~17 Richmond Street
QUAMBATOOK **Quambatook Auto Services** - Gutherie Street
ROCHESTER **Bruce Hocking Motors Pty Ltd** - 71 Moore Street
RUTHERGLEN **Jasper Bros Pty Ltd** - Main Street
SALE **Sturgess Smith Holden** - 232~240 York Street
SEA LAKE **Paddy Smith Holden** - Calder Highway
SEYMOUR **R.N. & J.R. Beer Pty Ltd** - 49 Emily Street
SHEPPARTON **Parker Bros Auto Co** - Melbourne Road
STAWELL **David Reid Holden** - 71~73 Main Street
ST. ARNAUD **Maurie McGrath Motors** - 126 Napier Street
SWAN HILL **Nyah Motors** - 59~61 Nyah Road
TALLANGATTA **Crispin Motors** - 21 Towong Street
TIMBOON **Timboon Motors** - Bailey Street
TRARALGON **Colin Watson Holden** - Princes Highway
UNDERBOOL **A.J. Gloster & Sons** - Cotter Street
WANGARATTA **Alan Capp (New Cars) Pty Ltd** - Tone Road
WARBURTON **Col McKenzie Warburton Pty Ltd** - Main Street
WARRACKNABEAL **Amor Motors Aubrey Truck Sales** - Woolcock Street
WARRAGUL **John Carter Holden** - 47 Queen Street
WARRNAMBOOL **Callaghan Motors Pty Ltd** - 133~137 Fairy Street
WODONGA **McRae Holden** - Cnr Hume Highway & Melrose Avenue
WONTHAGGI **J.P. Holden** - 2 Murray Street
YARRAM Graham Helleren Motors Pty Ltd - Bland Street
YARRAWONGA **Pigdons Pty Ltd** - Belmore Street

Tas.

BURNIE **Motors Burnie** - 84~89 Marine Terrace
DEVONPORT **Motors Devonport** - Victoria Parade
HOBART **Motors Pty Ltd** - 179 MacQuarie Street
KING ISLAND **King Island Motors Pty Ltd** - Netherby Road, Currie
LAUNCESTON **Motors Launceston** - Elizabeth Street
SMITHTON **Motors Pty Ltd** - 116 Nelson Road
ULVERSTONE **Motors Pty Ltd** - 99 Reibey Street

Qld. Metropolitian

ALBION **Bill Harrison Car Sales** - Frodsham Street & Crosby Road
ASPLEY **Zupps (Aspley)** -1442 Gympie Road
BEENLEIGH **Crest Holden** - 81~83 Logan River Road
CLEVELAND **Brian Trebble Motors** - 6 Wellington Street
INDOOROOPILLY **Centenary Holden** - 440 Moggill Road
IPSWICH **Zupps Holden** - 246 Brisbane Road, Booval
MOOROOKA **John Sivyer Holden** - 1060 Ipswich Road
MT. GRAVATT **Zupps Motors Pty Ltd** - 1310 Logan Road
NEWSTEAD **Eagers Retail Pty Ltd** - 95 Breakfast Creek Road
NUNDAH **Eagers (Northside)** - 1319 Sandgate Road
PETRIE **North Pine Motors** - Gympie Road
REDCLIFFE **Village Holden** - 425 Elizabeth Road
SPRINGWOOD **Motorama Holden** - Pacific Highway & Brennan Street
WINDSOR **Leach Holden** - 143 Newmarket Road
WOOLLOONGABBA **Armstrong Holden** - 73 Ipswich Road
WYNNUM **Doug Barton Holden** - 200 Tingal Road

Qld. Country

ATHERTON **Redding Motors Pty Ltd** - 2 Cook Street
AUGATHELLA **Augathella Motors** - Main Street
AYR **Honeycombes Sales & Service** - 115~119 Railway Street
BEAUDESERT **Lee Holden** - 57 Brisbane Road
BEEWAH **Beewah Motors Pty Ltd** - Beewah Parade
BILOELA **David Horton Motors** - 41~43 Dawson Highway
BLACKWATER **B.P. Tyre Power** - Capricorn Highway
BOWEN **Lloyd Brothers** - 47 Leichardt Street
BUNDABERG **Stewarts Motor City** - Takalvan Street
CABOOLTURE **Peter Nott Holden** - Bribie Island Road
CAIRNS **Ireland Holden** - 227~233 Mulgrave Road
CALOUNDRA **Drinnan Holden** - Caloundra Road
CAPELLA **S.A. Rickett & Co** - Peak Downs Street
CHARLEVILLE **Alan Dobbin Holden** - 129 Alfred Street
CHARTERS TOWERS **Peters Holden** - 57 Mosman Street
CHINCHILLA **Ainsworth Motors & Machinery Pty Ltd** - 55 Chinchilla Street
CLONCURRY **Cloncurry Motors** - 59 Scarr Street
CROWS NEST **Dennis Nissen Motors** - 14 William Street
CUNNAMULLA **South West Autos** - 25 John Street
DALBY **Johnson's Holden** - 36 Drayton Street
EMERALD **Leahy Motors** - Clermont Street
GATTON **Gatton Auto Centre** - 67 Railway Street
GAYNDAH **Gayndah Motors** - Capper Street
GLADSTONE **Anderson Motors (Gladstone) Pty Ltd** - 56 Yaroon Street
GOONDIWINDI **Border Holden** - Cnr Albert & Russell Streets
GYMPIE **Madills** - 35 Mellor Street
INGHAM **Origlasso Motors** - 99 Lannercost Street
INNISFAIL **I.C. Taylor Pty Ltd** - 117 Edith Street
JULIA CREEK **Julia Creek Motors Pty Ltd** - Burke Street
KILCOY **Hobart's Garage** - 58 Mary Street
KINGAROY **John Dundas Pty Ltd** - 38 King Street
LAIDLEY **Buhse's Garage Pty Ltd** - 5 Spicer Street
LONGREACH **Longreach Motors** - 33 Swan Street
MACKAY **Pioneer Holden** - Cnr Gordon & Wellington Streets
MACKAY **James Crocker & Sons Pty Ltd** - 17 Wellington Street
MAREEBA **Borman Motors Pty Ltd** - 76 Byrne Street
MARYBOROUGH **Whitaker Holden** - 109~111 March Street
MITCHELL **Eastern Sales & Service** - 155 Alice Street

Qld. Country cont.

MORANBAH **Ampol Belyando** - Cnr Belyando Ave & Bacon Street
MONTO **Mac's Parts & Service Pty Ltd** - Cnr Lister & Kelvin Streets
MOUNT. ISA **Barkly Motors Pty Ltd** - Marian Street
MOURA **Moura Steering & Brake Service** - Theodore Road
MURGON **Clifton Motors** - McAllister Street
NAMBOUR **Kallenbach Motors** - 139 Howard Street
NANANGO **Nanango Motors Pty Ltd** - 72~74 Drayton Street
NOOSA HEADS **Gilbert Motors Pty Ltd** - Cnr Cooroy Noosa Rd & Coral Tree
PROSERPINE **Crossley Car Whitsunday Pty Ltd** - 162~164 Main Street
QUILPIE **Quality Motors** - Boonkai Street
ROCKHAMPTON **Lawrence's** - 327 Richardson Road
ROMA **Roma Auto Sales** - 44 McDowall Street
SOUTHPORT **Lockhart Holden** - 70 Nerang Street
SPRINGSURE **Springsure Motors** - Eclipse Street
ST. GEORGE **Halpin Motors** - 39~41 Grey Street
STANTHORPE **Central Motors** - 42 Maryland Street
SURAT **Bayly Motors** - 81 Burrowes Street
TARA **Shaw Motors** - 10 Wilson Street
THEODORE **C.J. Auto Repairs** - 6th Avenue
TOOWOOMBA **Eagers Retail Pty Ltd** - Cnr James & Hume Streets
TOWNSVILLE **Tony Ireland Holden** - 87~91 Charters Towers Road
TULLY **Central Service Station** - 12 Richardson Street
WARWICK **Deighton Motors Pty Ltd** - Grafton Street
WINTON **Gillespie Motor Dealers Pty Ltd** - Elderslie Street
YULEBA **Cox Motors** - Stephenson Street

N.T.

ALICE SPRINGS **Kittle Bros (Alice Springs) Pty Ltd** - Cnr Wills & Railway Terrace
DARWIN **Suttons Motors (Darwin) Pty Ltd** - 21~25 Stuart Highway
KATHERINE **Master Motors** - 1130 Victoria Highway

S.A. Metropolitan

ADELAIDE **City Holden** - 203~221 Grenfell Street
ELIZABETH **Peter Page Holden** - Elizabeth Way
MALVERN **Claridge Holden** - 361~367 Unley Road
PORT ADELAIDE **Smiths of Port Adelaide** - 171 Commercial Road
REYNELLA **Southgate Holden** - 49~59 Main South Road
SOMERTON PARK **John H. Ellers** - 282 Brighton Road
THEBARTON **United Holden** - 1 Port Road
VALLEY VIEW **Plaza Holden** - 817~839 North East Road

S.A. Country

BALAKLAVA **Balaklava Motors** - 4 Wallace Street
BERRI **Rosenthal Bros Pty Ltd** - Vaughan Terrace
CEDUNA **Beck Motors Pty Ltd** - Poynton Street
CLEVE **Herbert Motors Pty Ltd** - Main Street
CRYSTAL BROOK **Newitt's** - 26 Brandis Street
CUMMINS **Trigg & Wedd** - 3 Umlauf Street
GAWLER **Steinhage Motors Pty Ltd** - Cnr Murray & Bridge Sts
JAMESTOWN **Jamestown Motors Pty Ltd** - 23 Spalding Road
KADINA **J.H. Rosewarne Pty Ltd** - Graves Street
KEITH **Farmers Centre** - McBain Street
KINGSCOTE **Roberts Motors** - Telegraph Street
KINGSTON **Lecornu's Service Garage** - Agnes Street
LAMEROO **Des Pahl Motors** - 27 Chandos Terrace
LOXTON **Flight Motors Pty Ltd** - Bookpurnong Terrace
MAITLAND **Maitland Motors Pty Ltd** - 58 Robert Street
MALLALA **Curnow's Garage Pty Ltd** - Balaklava Road
MENINGIE **Peter Hood Holden** - Cnr Princes Highway & Coonalpyn Road
MILLICENT **Aslin Motors** - 98 George Street
MT. BARKER **Gilbert Motors (Mt. Barker) Pty Ltd** - 57 Adelaide Road
MT. GAMBIER **O.G. Roberts & Co** - Jubilee Highway West
MURRAY BRIDGE **Dutton Motors Pty Ltd** - 7 Adelaide Road
NARACOORTE **Kingcraig Motors Pty Ltd** - 158~164 Smith Street
PORT AUGUSTA **Williams Holden** - 38 Stirling Road
PORT LINCOLN **City Motors** - King Street
PORT PIRIE **Spencer Holden** - 50 Ellen Street
RENMARK **Rosenthal Motors Pty Ltd** - Ral Ral Avenue
STRATHALBYN **Gilbert Motors (Strathalbyn) Pty Ltd** - High Street
TANUNDA **E.H. Hage & Co Pty Ltd** - 150 Murray Street
TUMBY BAY **Seaview Motors** - Tumby Terrace
VICTOR HARBOUR **Southern Holden** - 5 Victoria Street
WAIKERIE **Francombe Holden** - 6 Crush Terrace
WHYALLA **Mitchell Holden** - 64 Essington Lewis Avenue
YANKALILLA **Martin Motors Pty Ltd** - Main Street
YORKETOWN **Southway Holden** - 7 Minalaton Road

W.A. Metropolitan

CANNINGTON **Brian Gardner Holden** - 1308 Albany Hwy
FREMANTLE **Shacks Holden** - 64 Queen Victoria Street
GOSNELLS **Lance Gibbons Holden** - 2325 Albany Highway
MELVILLE **Melville Motors Pty Ltd** - 532~536 Canning Highway
MIDLAND **Goldy Holden** - 161 Great Eastern Highway
MORLEY **Metro Motors Pty Ltd** - 212 Walter Road
NAVAL BASE **Shacks Cockburn** - 15 Rockingham Road
OSBORNE PARK **North City Holden** - Cnr Scarborough Beach Rd & Harborne St
PERTH **City Motors** - 505 Newcastle Street
VICTORIA PARK **Young's Holden** - 529 Albany Highway
WANNEROO **Phoenix Holden** - 316 Berriman Drive

W.A. Country

ALBANY **Manley Stanwell Holden** - 92~98 Earl Street
AUGUSTA **Augusta Garage & Service Station** - 100 Blackwood Ave
BEVERLEY **Barnsley Holden** - 149 Vincent Street
BOYUP BROOK **Strapp Motors** - 7 Bridge Street
BRIDGETOWN **Kordics Bridgetown** - Hampton Street
BROOKTON **Coote Motors** - Robinson Road
BOOME **Norwest Holden** - McPherson Street
BRUCE ROCK **McCall Motors** - Butcher Street
BUNBURY **Wallace Holden** - 72 Spencer Street
BUSSELTON **Fennessy Holden** - 2~4 Bussell Hwy
CARNAMAH **T & H Walton Stores Pty Ltd** - Robertson Street
CARNARVON **North West Autos** - 175 Robinson Street
COLLIE **Station Motors** - 102 Throssell Street
CRANBROOK **Cranbrook Motors** - 11~13 Gathorne Street
DALWALLINU **Reid & Inglis** - Johnson Street
DERBY **Derby Auto Repairs** - 27 Loch Street
ESPERANCE **Dempster Holden** - Norseman Road
GERALDTON **Youngs Motors** - Cathedral Avenue
GNOWANGERUP **G.S. Hendry & Co Pty Ltd** - Yougenup Street
KALGOORLIE **Kyle Motors** - 114 Boulder Road
KATANNING **Edwards Holden** - 159 Clive Street
KELLERBERRIN **Dowding Motors** - 1 Mitchell Street
KOJONUP **F.W. & M. Harris & Sons** - 98 Albany Highway
KUNUNURRA **Elgee Automotive & Diesel Services** - Mango Street
MANJIMUP **Kordics** - Rose Street
MERREDIN **Carson's of Merredin** - 112 Barrack Street
MOORA **Frank Lewis Holden** - Gardiner Street
MORAWA **T & H Walton Stores - Morawa** - 6 Buron Road
MT. BARKER **Lori's Auto's** - 63 Lowood Road
NAREMBEEN **W.J. Nichols (1979) Pty Ltd** - 20 Churchill Street
NARROGIN **Narrogin Motors** - Cnr Ensign & Federal Streets
NORTHAM **Withnell Motors** - 58 Fitzgerald Street
PORT HEDLAND **Paul Moxham Holden** - 26~28 Anderson Street
WAGIN **Marley White & Co** - Tudor Street
WILLIAMS **R.S. Logie & Sons** - Rosselloty Street
WYALKATCHEM **J.S. Rimmer & Sons** - Railway Terrace

We want you to be happy with your new car together with the people you deal with while you have the car.

Normally, any problems which may arise with the sales transaction, operation or servicing of your car will be handled by your Dealer's Sales and Service Department.

We realise however, that, with the best intentions, misunderstandings do occur sometimes.

Accordingly, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, you have the facility of the Holden's Customer Assistance Service office at your disposal. The Holden's Customer Assistance representatives can by telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 646 5466. Outside the Melbourne Metropolitan area, the number is 008 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 797 7341

Naturally, telephoning is the quickest and the best way of contact. However, if you prefer to write the address is:

The Manager
Holden's Customer Assistance Services
GPO Box 548D
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

* Your name and address
* Telephone numbers, both private & Business
* Servicing Dealership name and address
* Vehicle model
* Vehicle identification number (VIN)
* Date of purchase
* Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

Chapter 6

Basic Maintenance

Page

6-1 Miscellaneous checks
6-1 Service manuals
6-2 Check locations
6-3 Engine oil level check
6-4 Engine oil consumption notes
6-5 Engine coolant level check
6-6 Automatic transmission fluid level check
6-7 Washer fluid level check
6-8 Brake fluid level check
6-9 Power steering fluid level check
6-10 Tyre air pressure
6-11 Tyres (general)
6-13 Battery
6-14 Fuses
6-15 Bulb replacement
6-18 Trolley jack locations

As well as taking your car to be serviced (refer Chapter 10) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

The following checks should also be regularly done to ensure proper safety and dependability of your car.

CHECK:

# that all exterior lights are working and that their appropriate interior indicators light up when in operation.

# mirrors and glass are clean and not scratched.

# automatic transmission T-bar indicator correctly lines up next to the gear selected.

# the aim of water on the windscreen or tailgate and condition of the wipers

# demister operates.

# horn works.

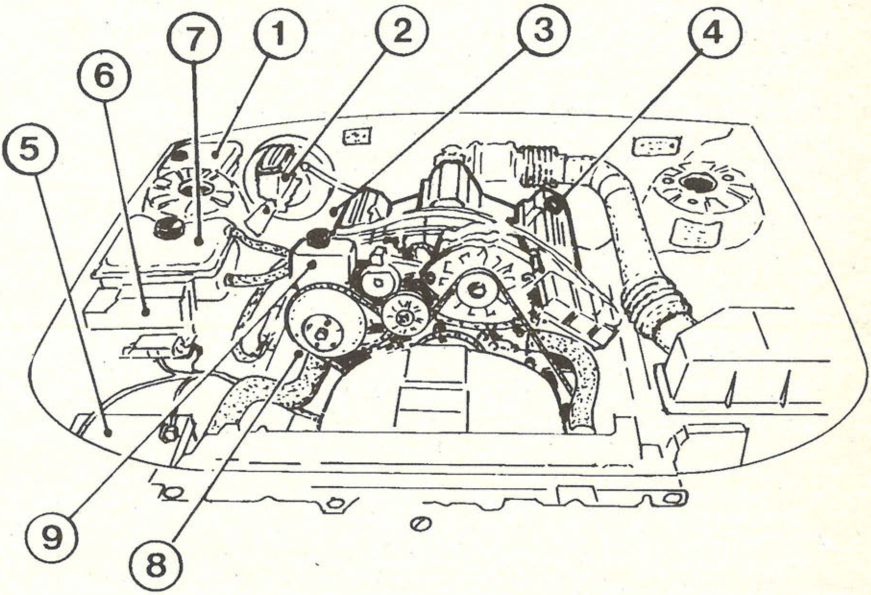
# all seat belt condition and operation (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

General Motors-Holden's Automotive Limited also publishes various service manuals which are available from your Dealer.

CHECK LOCATIONS

Refer Chapter 1, page 1-19 for raising and securing the bonnet.



1.	Windscreen washer fluid	page 6-7
2.	Brake fluid	page 6-8
3.	Automatic transmission dipstick	page 6-6
4.	Engine oil cap	page 6-3
5.	Battery	page 6-13
6.	Fuse panel	page 6-14
7.	Engine Coolant	page 6-5
8.	Engine oil dipstick	page 6-3
9.	Power steering fluid	page 6-9

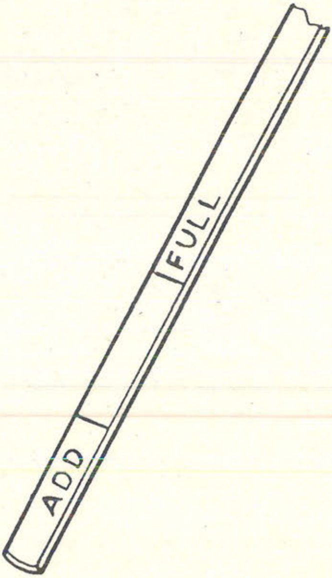
It is the owner's responsibility to check the oil level weekly. The best time to check the engine oil level is when the oil is warm, such as during a refuelling stop.

To check the oil level accurately, the vehicle must be on level ground. After stopping the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick. Refer to the diagram on page 5-2 for location.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be maintained between the two marks, neither going above the FULL mark nor under the ADD mark. Remember to reinsert the dipstick firmly after taking the reading.



If you need to add oil, use SF or SG grade engine oil 20W/40 (or 15W/40 for prolonged use in snow areas).

To add oil, turn the oil cap (refer page 5-2 for location) anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil, when correct, screw the cap back on tightly and replace the dipstick.

If you check the oil level when the oil is cold do not run the engine first. The cold oil will not drain back into the oil pan fast enough to give a true oil level reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may be detrimental to the operation of your car.

Every internal combustion engine uses a certain amount of oil, especially during the running-in period. Your engine is dependant on oil to lubricate the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine, apart from mechanical malfunctions such as worn pistons, rings, valve stems and guides. These factors are: the way in which the vehicle is operated, the quality and grade of oil, the oil level, and dilution of the oil.

# OPERATION OF THE VEHICLE

Sustained high engine speeds will increase oil consumption because higher speeds increase engine temperature which lowers oil viscosity thus allowing more oil to reach the combustion chamber. Towing a heavy load will also result in increased oil consumption due to increased engine temperature and hence lower oil viscosity.

It is recommended that heavy load towing be done only after the vehicle has been "run-in".

# QUALITY AND GRADE OF OIL

Oil viscosity is a significant factor in oil consumption, therefore if you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

# OIL LEVEL

Maintaining a proper oil level is also an important factor in controlling oil consumption. An overfull crankcase allows the reciprocating parts of an engine to splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt.

# DILUTION

Probably the most prevalent complaint of oil consumption comes from the motorist whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 kms of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 kms.

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container, called the surge tank.

When the engine is cold the coolant level should be at the *cold* mark on the surge tank.

After the car has been driven and the engine is at normal operating temperature the level should be somewhere between the *cold* mark and the surge tank centre weld joint.

The LONG LIFE COOLANT in your car conforms to Holden's specification number HN 1897. This can be purchased as:

M39288 (1 litre); M39338 (4 litres); M39290 (20 litres)

If the surge tank requires topping up, first premix a solution of 1/3 LONG LIFE COOLANT and 2/3 water. Undo the cap on the top of the surge tank, add the premixed solution and secure the cap. Note that if the surge tank was completely dry, the level should be checked again after 5 minutes of running the engine, as it will take at least 5 minutes for the coolant to drain back into the radiator.

Failure to use the specific Holden coolant or maintain the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily in the cooling system until the correct Holden long life coolant is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified long life coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This long life coolant also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -16 degrees Celcius, provided the correct concentration is maintained.

If you regularly have to top up the surge tank you should see your Holden Dealer for a cooling system check.

CAUTION: Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

CAUTION: Do not remove the coolant surge tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to page 4-7 if engine overheats.

The level of fluid in the automatic transmission (if fitted) should be checked weekly, by looking at the fluid level on the dipstick. Refer to the diagram on page 6-2 for location. Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

The fluid should be checked after the car has been driven for at least 10 minutes - so that the fluid is warm.

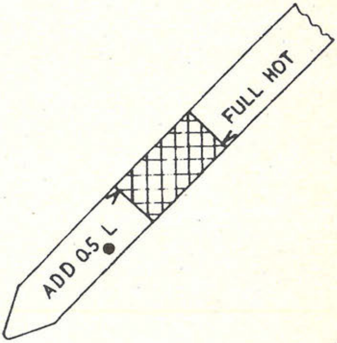
The car must be standing on level ground with the engine running.

The gear shift selector should be in PARK and the park brake applied.

Remove the dipstick, wipe it clean with a clean cloth or paper and reinsert it fully. Now remove it again and read the fluid level.

If the level is at or below the *ADD* mark, add fluid until the level reaches the *FULL HOT* mark.

The level should never read over the *FULL HOT* mark, so be careful not to add too much.



If adding fluid, use only DEXRON* 11D AUTOMATIC TRANSMISSION FLUID. Add the fluid in the same opening as the dipstick is stored in and wait one minute for the oil to settle. Again check the level with the dipstick and add further fluid if necessary. Remember to always replace the dipstick.

NOTE: If fluid has to be added often, there may be a problem or leak - and you should see your Holden Dealer.

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* DEXRON is a registered trademark of General Motors Corporation.

Windscreen washer fluid

The washer fluid is constantly used, so the level should be checked weekly and topped up as required.

Refer to page 6-2 for location of the washer's plastic container.

Maintain the fluid at the level indicated on the outside of the container.

For a crystal clear windscreen, the correct amount of Optikleen (part no. M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

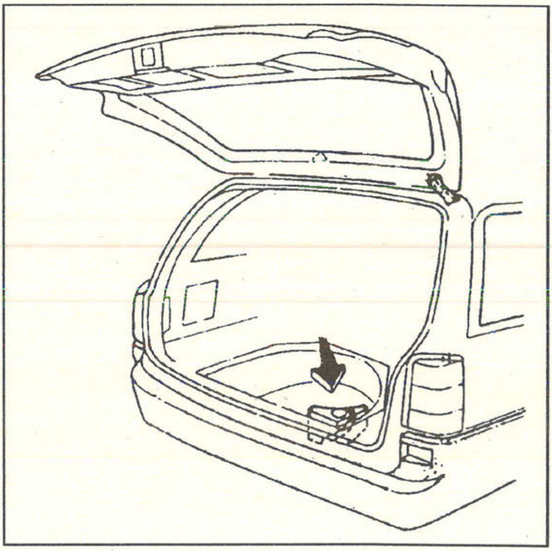
Tailgate washer fluid (wagon only)

A separate container, in the rear load area, holds the tailgate washer fluid.

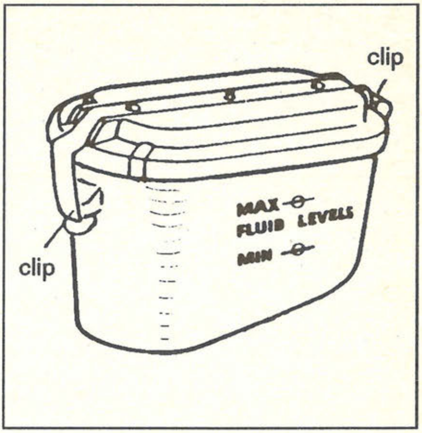
Open the tailgate and roll the carpet forward.

14" wheels - unclip the spare wheel cover, then lift cover up. 15" wheels - unscrew the centre retaining nut and lift cover up.

The washer container will now be visible, next to the spare wheel. Check and add as for windscreen washer fluid.



The brake fluid level in the master cylinder should be checked regularly in conjunction with checking the oil and coolant levels. The fluid level, visible through the "see through" master cylinder should be maintained between the **MIN** and **MAX** level markings. If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the performance of the fluid as will as increasing risk of corrosion of brake components.



If fluid needs to be added, unclip and lift off the top cover. Top up with heavy duty brake fluid which meets Holden's specification no. HN 1796. This can be purchased as Holden's part no. 92026651. Remember to secure the cap at each end.

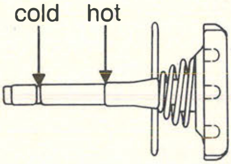
If the master cylinder requires constant topping up it could indicate that a malfunction exists in which case it should immediately be brought to the attention of your Holden Dealer.

The level should be checked after the car has been driven for a while, so that the fluid is warm. A convenient time to do this is when stopping for petrol.

Refer page 6-2 for location of the container. Unscrew and carefully remove the cap on top of the container. The dipstick is attached to the cap.

The fluid level should be maintained at or below the HOT mark.

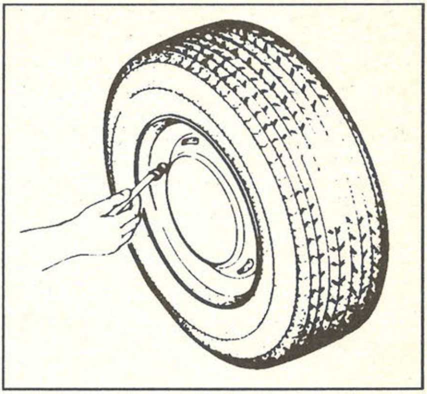
If checking the level when the car has not been driven for a while, then the level should be at or below the COLD mark.



If fluid needs to be added, use DEXRON* 11D . Do not overfill. Remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer to have the power steering system checked.

*DEXRON is a registered trade mark of General Motors Corporation.

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your SAFETY, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your car will handle at it's best - CHECK THE PRESSURES WEEKLY. For constant long distance or rough road travelling, daily checking is recommended.

Refer to the tyre placard inside the glove box for the correct pressure for your tyres.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the TYRES ARE COLD (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a TYRE PRESSURE GAUGE to check the tyres - simply looking at the tyres is not sufficient.

Remember to put back any valve DUST CAPS or EXTENSIONS if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the TYRE TREAD, for stones or abnormal wear.

To maximise the protection of tyres on cars operating for prolonged times over rough roads (particularly in outback conditions) it is recommended that the cold tyre inflation pressure recommended for maximum load condition as shown on the tyre placard is used.

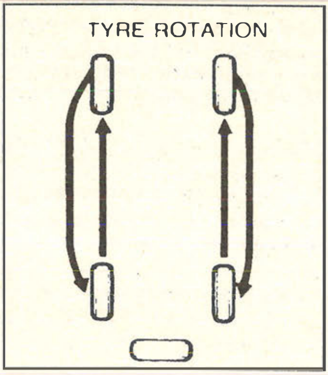
Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

Tyre inspection and rotation



Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated, it is recommended that the balance be checked at the same time. However if no abnormal or uneven wear is evident, tyres need not be rotated.

Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your car for the purpose you require should be referred to your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your car.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your warranty as well as your motor vehicle insurance policy.

Tyre traction

CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

Tyre replacement and repair

CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your car except in emergencies, because your car's handling could be affected and may result in loss of control.

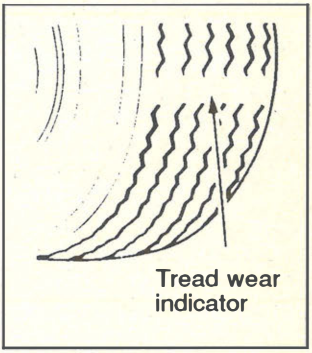
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your car. Refer to tyre placard inside glove box for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or with a maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear or the cord or fabric is showing. The original equipment tyres fitted to your car incorporate built-in tread wear indicators which assist in determining when the tyres have worn to the point of needing replacement (see illustration). In the interest of safety, replacement should not be delayed.
2. The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.



3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds therefore use is not recommended.

The “maintenance-free” battery in your car should never need to be topped up. The fluid level will be checked for you when you take your car to be serviced by your Holden Dealer. However, if your car is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watchbands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

When checking the battery level, make sure the engine is not running. Pry off the two removable caps with your fingers - there will be 6 filler holes revealed. Each cell must be individually checked. Use distilled water, as required, to keep the level 5 mm below the bottom of each filler neck . DO NOT OVERFILL.

Refer page 4-9 for emergency starting when the battery is flat.

Fuse system

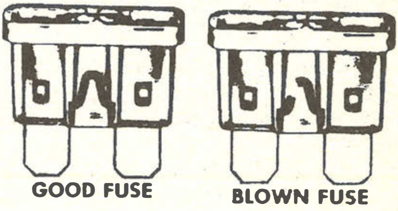
The main fuse panel is in the instrument panel, on the lower, right side of the steering column

To gain access to the fuses, undo the panel under the steering column by untwisting the two lock buttons on either side of the steering column with a 5 cent coin, or similar. The hinged panel will then drop down to reveal the fuses.

The separate, fuse/relay box is located in the engine compartment, behind the battery. Access to the fuses is gained by removing the snap on cover. Care is needed to ensure cover fits over splash guard prior to refitting cover.

The inside of both covers have diagrams showing the layout of the fuses and the amperage required.

Fuses used are of the blade type with the amperage values moulded into the head. To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. If the element is broken (see illustration), replace the fuse with one of the same amperage value.



If after replacing a burnt-out fuse the new fuse also burns out, this indicates that the fuse is still overloaded. The cause of the fault should be located and rectified, preferably by a Holden Dealer.

CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse as it could damage electrical components and may cause a fire hazard to your car.

Fusible link

The main wiring harnesses in your car are protected from electrical overload by fusible links incorporated into the wiring system.

In case of a short circuit, the link will melt internally thus disconnecting the battery. The fusible link panel is located in front of the fuse/relay box inside the engine compartment. After removing the snap on cover, the plug-in fusible links may be removed by hand, except for the centre (main) fusible link. To remove the main link, remove the two screws securing the housing to the bracket, lift up the housing and remove the upper bolt on the rear side of the housing. The main, fusible link can then be removed. Note: The battery must be disconnected when servicing the main centre fusible link.

For more detail, refer to the Service Manual of your car, or if still unsure, see your Holden Dealer. Remember to always replace a fusible link with one of the same amperage. If the replacement fusible link also burns out, this indicates that the fuse is still overloaded. The cause of the fault should be located and rectified, preferably by a Holden Dealer.

Headlights (60/55 watts)

Do not touch bulbs or reflectors with bare hands. Greasy fingers will cause stains which evaporate - eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

1. Open bonnet. Turn dust cap anti-clockwise and remove from rear of headlight assembly.

2. Pull off wiring harness connector from rear of bulb.

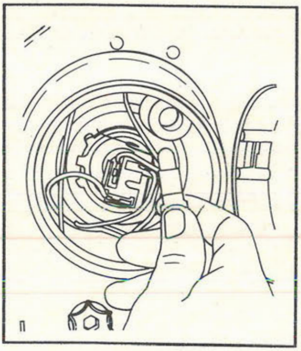
3. Unclip spring retainer and pivot clear of bulb, then remove bulb.

4. Refit new bulb into place, refit spring retainer, wiring harness connector and dust cap. Ensure bulb is seated correctly in Reflector.

5. Re-aim headlights. Detailed procedures for headlight aiming are given in the relevant service manual for your car. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

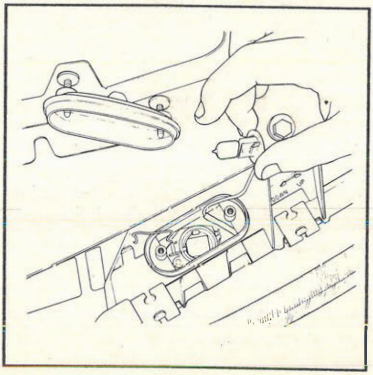
Front park lights (5 watts)

1. Remove dust cap from rear of headlight.
2. Remove park light bulb holder (located next to headlight bulb) by pulling straight out of housing.
3. Remove park light bulb by pulling straight out of holder.
4. Insert new bulb, reinstall holder and dust cap.



Inboard high beam (55 watts)

1. Open the bonnet. Located on the top of the headlight housing is a dust cap, secured by two screws. Remove the two screws and the dust cap.
2. Using a pair of pointed nose pliers, pull earth lead (black wire) connector from bulb holder.
3. Disconnect spring retainer and pivot clear of bulb.



4. Pull out bulb far enough to expose electrical lead connector. Disconnect connector and remove bulb assembly.

5. Connect new bulb and electrical lead, install bulb assembly into correct locating notches, reconnect spring retainer. Refit earth lead connector and dust cap.

Front, turn signal (21 watts)

1. Open bonnet. Twist to release bulb holder from behind turn signal assembly.

2. Lightly depress bulb and remove in a twisting motion out of the holder.

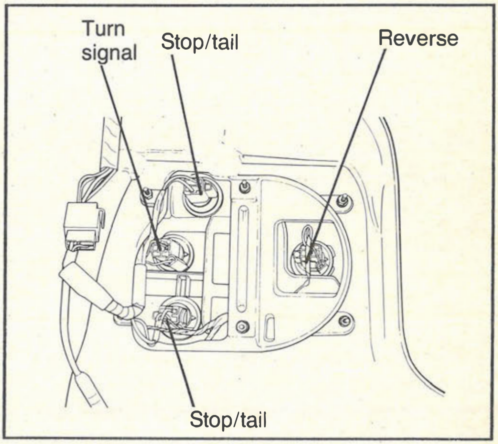
3. Insert new bulb and reinstall bulb holder.

Sedan: rear turn signal (21 w), stop/tail (21/5 w), reverse (21 w)

1. From inside the boot, remove the respective bulb socket by twisting anti-clockwise.

2. Depress bulb and rotate to remove from socket.

3. Insert new bulb into socket, and reinstall socket.



Wagon: rear turn signal (21w), stop/tail (21/5w), reverse (21w)

1. Unscrew the four screws and remove the lens.

2. Slightly depress respective bulb and rotate to remove from socket.

Bulb socket sequence from top downwards is: Turn signal, stop/tail, reverse.

Sedan, licence (5 watts)

1. Prise lamp assembly from rear bumper bar.

2. Rotate bulb to remove from socket.

3. Install new bulb, then push lamp assembly back into bumper bar.

Wagon, licence (5 watts)

Two bulbs are located at either side of the tailgate lock cylinder, above the licence place. To replace the bulb, undo the two screws at either side of the lens. The bulb can be pulled straight out. Install new bulb, replace lens and refit screws.

Fog lamps, where fitted (55 watts)

Replacement of fog lamps requires removal of the front bumper bar. Refer to instructions given in the relevant Service Manual for your car, or preferably have the work carried out at your Holden Dealership.

Interior, boot & glovebox Lights

Gently prise away the “snap-on” lens. Bulbs can then be pulled straight out by hand. Bulb replacement is as follows: Dome (10 watts); rear compartment (10 watts); front seat reading light where fitted (5 watts); rear seat reading light where fitted (10 watts); glovebox (5 watts).

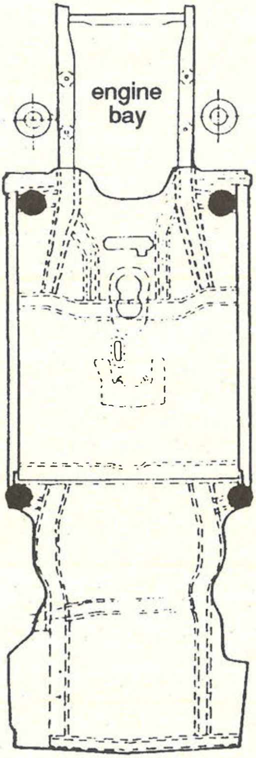
Instrument panel & console lights

Replacement of these bulbs is recommended to be done only by a Holden Dealer or another competent person as all wiring and associated attachments are prone to damage if not serviced correctly.

TROLLEY JACK LOCATIONS

You should always use the jack locations shown on page 4-6 when using the original jack supplied with your car. This jack has been designed to correctly and safely lift your car. Also note the precautions on page 4-5 prior to lifting.

However, if using a trolley jack to raise the car, it is important that the jack be positioned under the suspension crossmember or hoist pad locations. DO NOT JACK UNDER THE SUSPENSION CONTROL ARM. The car should always be supported by jack stands when raised.



Note that the rear lifting points are the same position as for the scissor jack supplied with your car.

Chapter 7

Loading the car & Towing

Page

7-1 Loading the car
7-2 Roof racks, bull bars, superlift shock absorbers
7-3 Towing
7-4 Towing equipment
7-5 Towing tips and precautions

LOADING THE CAR

Overloading is a safety hazard and could also shorten the life of your car or its parts.

The recommended load carrying capacity of your car is:

Sedan - one passenger for each seat belt provided, plus 68 kgs luggage.
Wagon - one passenger for each seat belt provided, plus 91 kgs luggage.
- When Holden's accessory 3rd seat is fitted, the load capacity of the wagon is modified as follows:
One passenger for each seat belt, up to 8 years old (or 26 kg) in 3rd seat plus 7 kg luggage.
Note that luggage in the car should be stowed securely behind the 3rd seat or on a roof rack.

If you load your car other than to the above recommendations then you should ensure that the MAXIMUM REAR AXLE LOAD and the MAXIMUM VEHICLE LOAD (see below) are not exceeded.

KERB WEIGHT

The kerb weights shown below are for the weight of a standard unloaded car, without options, but with a full tank of fuel.

8VK19	1,312 kgs
8VK35	1,338 kgs
8VL19	1,358 kgs
8VL35	1,415 kgs
8VX19	1,386 kgs

TOW BAR BALL LOAD

The tow bar ball load is the weight on the towbar ball when the packed caravan (or trailer) is hitched.

Ideally, the ball load should be 10% of the packed caravan weight. This can be adjusted by correctly packing the contents of the caravan.

If the ball load is too light or too heavy, the steering and handling of the car will be greatly impaired.

When towing, the weight of the ball load must be subtracted from both the maximum rear axle and G.V.M. loadings.

MAXIMUM VEHICLE LOAD

The Maximum Vehicle load is the total weight that a car is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and towbar ball load. The maximum, allowable weight for your car is as follows:

8VK19	1,780 kgs
8VK35	1,825 kgs
8VL19	1,780 kgs
8VL35	1,860 kgs
8VX19	1,794 kgs

MAXIMUM REAR AXLE LOAD

The maximum allowable rear axle load for your car is:

8VK19	934 kgs
8VK35	975 kgs
8VL19	934 kgs
8VL35	998 kgs
8VX19	948 kgs

Remember to take the towbar ball load into account when determining the rear axle load.

Roof rack loads

No increase in maximum vehicle load is allowable where a roof rack is fitted. It must be understood that roof rack loads alter the handling characteristics of a car due to a change in the centre of gravity. When carrying loads on the roof rack avoid abrupt swerving or sharp steering manoeuvers. The load should be evenly distributed. A load of no more than 68 kgs is recommended.

Booster springs and superlift shock absorbers

The use of booster springs or superlift shock absorbers DOES NOT increase the load capacity of the car. The recommended loading limits for your car must NOT be exceeded if overloading of axle components and the consequent shortening of service life is to be avoided.

Superlift shock absorbers do, however, allow adjustment of the car's height, so that improved ride and handling and better ground clearance in rough terrain may be obtained when running heavily laden.

CAUTION: Do not drive the car with superlift shock absorbers inflated when the car is unladen as vehicle handling is affected (the car should be at normal trim level).

"Add-on" equipment - front of car

Owners intending to fit bull bars etc. should first check with their Holden Dealer as, depending on the weight of the equipment, it may be necessary to fit heavier duty springs and struts to help avoid potential damage to the front underside of the car when driving on rough road conditions.

Note: Cars that have been fitted with the optional Country Pack will have these heavy duty front suspension components fitted as part of the package.

Mud flaps

If the car is driven extensively on unsealed roads it is strongly recommended to have mud flaps fitted to the car.

Your Commodore or Calais is designed primarily as a passenger vehicle so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing ensure that the correct equipment is fitted to your car. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

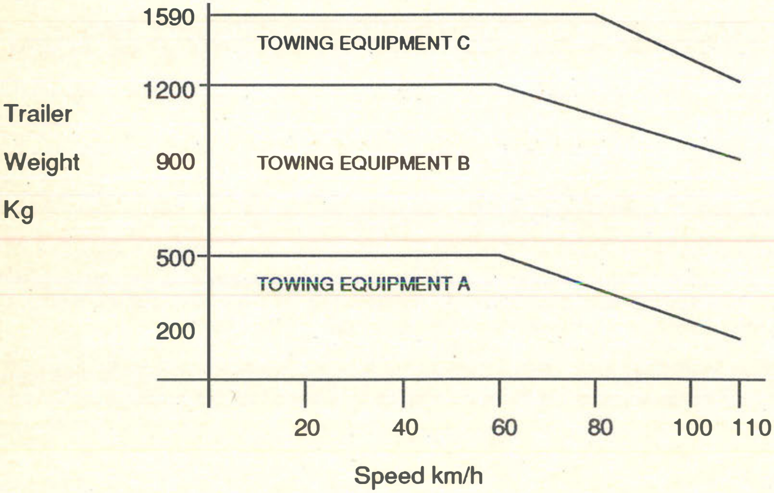
Determine which category your car will fall into from Table 1, then refer to Table 2 to determine which equipment is specified as essential and which equipment is preferable to your needs.

Your car will fall into either category A, B, or C depending on travelling speed and trailer (or caravan) weight. Each category requires extra equipment to be fitted to your car to enable it to perform satisfactorily.

It will be seen that loads should be reduced for travel at higher speeds.

Never exceed the loading given in Table 1 for the particular class of towing equipment fitted to your car.

Table 1



Note: Holden's towing equipment is recommended where it is available. Where it is not available no recommendation is made as to the make of equipment which should be used. Holden's will not accept liability for defects occurring in towing equipment not marketed by Holden's or for defects in the car arising from the use of such equipment.

Table 2

A	essential	Holden's trailer wiring Harness Package
	essential	Holden's 1,200 kg rating Tow Bar Package (sedan or wagon as applicable)
	preferable	Holden's Automatic Transmission oil cooler (if car fitted with automatic transmission)
B	essential	Holden's trailer wiring harness package
	essential	Holden's 1,200 kg rating Tow Bar Package (sedan or wagon as applicable)
	essential	Load Equalizer Hitch when towball loads are in excess of 75 kgs (not available from Holden's)
	essential	Trailer Brakes
	preferable	Automatic Transmission
	preferable	Holden's Automatic Transmission oil cooler (if car fitted with automatic transmission
C	essential	Holden's Trailer Wiring Harness Package
	essential	Holden's 1590 kg rating Tow Bar Package (sedan or wagon as applicable.
	essential	Heavy Duty Tow Bar Equalizer Hitch complying with SAE J784E or F Class 2 (not available from Holden's)
	essential	Trailer Brakes - Electric or Hydraulic
	preferable	Automatic Transmission
	essential	Holden's Automatic Transmission Oil Cooler (if car fitted with automatic transmission)
	preferable	Heavy duty battery
	preferable	Country Pack suspension
	essential	Holden's Body Side Brace Package (sedan only)

Holden's products are available through Holden Dealers. "Heavy duty" radiators and generators are standard on all VN Commodore and Calais models.

If the trailer uses electrical current from the car towing it (in excess of lights, stop lights and turn signals), then a heavy duty battery is specified.

Tow bar ball load (see page 7-1 for explanation) must not exceed 120 kg for category A and B and must not exceed 160 kgs for category C, even if a Load Equalizer Hitch (required when ball load exceeds 75 kgs) is used.

Safe towing tips

Your car will handle differently with a towed load. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.

Have your car correctly maintained and serviced.

Have your caravan or trailer maintained and serviced with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.

You should have an extended-arm mirror on both sides of your car.

Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizing hitch is not used.

Use a lower gear, rather than your brakes when decending steep hills.

If your caravan or trailer moves off the road behind you, allow the left wheels of your car to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.

Towing precautions

1. When towing, your tyres should be inflated to the maximum recommended pressure. Refer to the tyre placard in your glovebox.
2. Do not use axle-mounted hitches. They can cause damage to the axle housing, wheel bearings, wheels and tyres.
3. Trailer brakes are required on trailers over 500 kg loaded weight, except where State Laws may specify a lower limit. Some States specify that the maximum load to be towed must not exceed the vehicle weight.
4. It is permissible to tap into the rear brake system with a signal generating unit using not more than 0.21 cc of fluid displacement during the operation of the brakes. It must not be fitted to the front brake system.
5. The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions without adversely affecting the brakes on the towing vehicle.
6. Whenever a towbar is removed be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
7. Ensure that the tow bar does not obscure the rear licence plate, as this may violate State Law. If necessary, the towbar tongue may need to be removed when not required for towing.

Running-in when towing

It is best to drive your new car for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

Car Maintenance

More frequent car maintenance is required when using your car to pull a trailer or caravan, refer page 10-2. Where an automatic transmission is fitted, the transmission fluid ~~and filter~~ will need to be changed every 12 months or 20,000 kms. and filter every 2 years or 40,000 Kms.

Chapter 8

Cleaning

Page

INTERIOR CLEANING

8-1 Upholstery
8-2 Vinyl (P.V.C.) fabrics
8-2 Cloth fabrics
8-2 Carpet
8-2 Seat belts
8-2 Interior glass

EXTERIOR CLEANING

8-3 Washing
8-4 Removing grease, oil & tar spots
8-5 Polishing
8-5 Paintwork inspection
8-6 Exterior glass
8-7 Wheels and tyres
8-8 List of appearance care & maintenance materials

CAUTION: Many cleaners may be toxic or flammable, or may cause damage to the interior. When cleaning the interior, do not use volatile cleaning solvents such as : acetone, lacquer thinners, enamel reducers, nail polish removers, or such cleaning materials as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose.

Be sure the car is well ventilated while using any cleaning agents. Follow the manufacturer's recommendations when using such products.

Care and cleaning of upholstery

Dust and dirt particles which accumulate on the surface of the interior trim should be removed every few weeks - more often with constant hard driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains from an upholstery fabric, it is necessary to determine as accurately as possible:

1. The type of fabric.
2. The nature and age of the stain.
3. The effect of the stain removal agent upon the colour, structure and general appearance of the trim material.

It is essential that stains be removed from the trim material as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

The use of Holden's spot and stain remover will assist in the above, refer page 8-8.

Cleaning P.V.C. coated fabrics

Vinyl (P.V.C.) coated fabrics are used for seating, headlinings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made with fabric bases upon which synthetic resins are applied. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern the following procedure is recommended.

1. Using luke warm water and soap, or Holden's Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to advantage to remove stubborn stains or dirt embedded in the grain of the material.

2. Repeat using only a damp cloth and no soap.

3. Wipe dry with a soft cloth.

The above cleaning instructions also apply to the rubber floor mats.

Cleaning cloth trim

Where the seats in your car are upholstered with cloth, the following instructions should be observed. Most loose dirt and dust can be removed by a vacuum cleaner or a soft brush. DO NOT use a whisk broom or a coarse hair brush. If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden's Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden's Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner. After cleaning the carpet, use an air hose to fluff the carpet pile, then dry the carpet. After the carpet is completely dried, use an air hose to again fluff the carpet pile.

Cleaning seat belts

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts since this may severely weaken them.

Cleaning interior glass

The interior glass area of the car should be cleaned using Holden's Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demisting element.

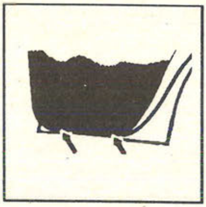
Never use abrasive cleaners on any car glass, as they may cause scratches.

CAUTION: Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

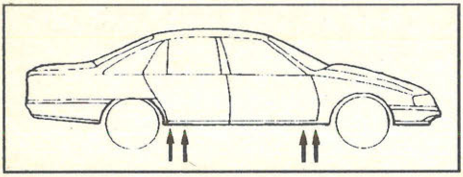
Before washing the paintwork on your car check that the door drain holes and rocker sill vents are not blocked. Also the underbody should be cleaned to remove deposits of mud and corrosive products.

Underbody cleaning. The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, park brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the car is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody by inspected and washed at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

Door Drain Holes. It is important that the drain holes at the bottom of the door panels are checked to make sure that they are free of dirt and foreign matter, which could trap water inside the panels. Clogged drain holes can be cleaned with a small screwdriver and these drain holes are angled back towards the rear of the car.



Rocker Sill Vents. In all models there are vents which should be regularly checked to see that they are clear of blockage, using a blunt ended instrument. These vents are formed as cutouts in the sheet metal along the bottom edge of the rocker sill.



Washing paintwork

For cars assembled in New Zealand, please read separate paint care instructions.

The acrylic lacquer finish on your car is superior to ordinary lacquers and will stay bright and new looking for years with little or no polishing, provided it is given a reasonable amount of regular washing to keep off road grime.

Washing not only removes dirt and road grime that settles on the car, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the car. These should be removed without delay, using an effective removal agent.

Regular washing

If the car is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the car to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the car under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the car after washing

Holden's Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer page 8-8.

Do not use hot water, strong soap or chemical detergents. Any cleaning agent used should be flushed promptly from the surface and not allowed to dry on the finish.

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or white spirits. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

WARNINGS

1. Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to acrylic finishes. When purchasing a cleaner, polish or wax ensure that it can be safely used on an acrylic finish.
2. If petrol is spilt on the paint finish when refilling, owners are advised to ensure that it is flushed off with clean water immediately. The reason is that petrols have a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
3. Petrol MUST NOT be used to clean any painted or plastic surfaces.

Insect spots

Insect spots on the paint finished parts of the car can be easily washed off by using a solution containing 1 litre of water in which approximately 110 grams of baking soda (Bicarbonate of Soda) has been dissolved. Flush the washed parts with clean water.

Polishing

Even though the acrylic lacquer finish on your car is more durable than ordinary lacquers, under certain conditions you may wish to polish your car to provide maximum protection against road dirt and industrial fall out etc. Also, the application of a polish may to required to remove foreign matter which is not normally removed from cars by washing. Over a period of time, such foreign matter may build up on the paint surface to the detriment of its overall appearance.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE EXISTING LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Painted plastic bumpers or body side mouldings may be cleaned and polished according to the instructions given above for the paintwork.

Paintwork inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust “creep” will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the car gives a very high degree of protection against the weather, but is should be realised that wear and deterioration occur when the car is exposed to elements for prolonged period. The car therefore should be garaged whenever possible.

Glass cleaning - general

Special care should be taken to avoid scratching the glass when it is being cleaned. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden's Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important, at all times, that the windscreen be kept clean so that the wiper blades may be as effective as possible in wiping the surface. Old wiper blades can cause windscreen scratching and therefore should be inspected regularly and replaced as necessary.

Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windscreen will impair vision, particularly at night. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft lint free cloth or chamois.

It is recommended that Holden's Optikleen be added to the windscreen washer reservoir to assist the wipers in keeping the windscreen clean whilst driving.

Wiper blades

Much of the oil and road scum thrown up onto the windscreen causing smearing when the wipers are switched on transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and cleaning with Holden's Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM.

If in dry conditions, the wiper blades are used to clean dust and dirt from the windscreen always use the washer system to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden's Tyre Black, refer page 8-9.

Alloy Wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Holden's Mag Wheel Cleaner can be used for cleaning most alloy wheels, however, it is not suitable for cleaning highly polished alloy wheels (refer to instructions on can). Do not use abrasive cleaners, as they could damage the protective coating.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M37432	390 x 370 mm	Synthetic Chamois	Absorbs water and cleans paint and glass surfaces.
M39828	500 ml	Polymer Glaze Polish	Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt, and weather damage.
M39829	500 ml	Easy Gloss Polish	Contains silicones and hard working waxes for extra shine.
M39846	250 ml	Deep Shine Glaze Polish	Contains Carnuba wax for a mirror finish.
M39833	250 ml	Cutting Polish	Removes oxidised paint and built-up road grime, leaving a smooth surface to apply polish
M39830	500 ml	Wash on Shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
M39831	500 ml	Foaming Car Wash	Leaves a no-streak finish.
M38424	350 g	Velour Fabric and Vinyl Cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
M38696	250 ml	Vinyl and rubber conditioner	Preserves and protects vinyl, leather and rubber.
M39169	250 ml	Spot and Stain Remover	Removes spots and stains from carpet, velour, vinyl and most fabrics.
M38695	250 ml	Glass Cleaner	Cleans all glass surfaces.
M39826	500 ml	Optikleen	Windscreen washer solvent.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M39168	100 ml	Car Freshener/ Deodorant	Removes smells, tobacco and other odors.
M38694	250 ml	Tyre Black	Low-sheen natural rubber finish for tyres.
M38692	250 ml	Mag Wheel Cleaner	Cleaning of all magnesium alloy wheels.
1050002	470 ml	Top Engine Cleaner	Purges gum, carbon, varnish and sludge from internal parts.
92026651	500 ML	Brake Fluid	Extra heavy duty brake fluid.
M39288	1 litre	Radiator coolant/ inhibitor	Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers freezing point for the cold winter months. Coolant increases boiling point of the cooling system for the summer months.
M39338	4 litres	"	
M39290	20 litres	"	
M39304	500 ml	Radiator Cleaner	Use prior to or replacing coolant/inhibitor.
M37223	400 g	Degreaser	Removes oil and grease from engines.
M37225	175 g	AC-4	- dispenses moisture on wet motors and electrical parts. - Penetrates and loosens rusted or seized parts. - Lubricates and protects against corrosion. - Inhibits corrosion on battery terminals.
M33028	27g	Solid Oil	Lubricant for locking mechanisms, door hinges, sticking windows.

Chapter 9

Specifications

Page

9-1 Engine data
9-2 Transmission specifications
9-2 Brake specifications
9-2 Steering specifications
9-2 Rear axle specifications
9-2 General lubricants
9-3 Body dimensions
9-3 Battery size
9-4 Emission control
9-5 Identification numbers and plates

Engine Description	Longitudal 90 degrees V6 overhead valve design even firing with port fuel injection, hydraulic roller valve lifters, balance shaft and electronic Direct Fire Ignition (D.F.I.)
Piston Displacement	3791 cc
Cylinder numbering, front to rear	driver's side: 2, 4, 6 passenger's side: 1, 3, 5
Firing Order	1, 6, 5, 4, 3, 2
Compression Ratio	8.5:1
Bore	96.5 mm
Stroke	86.3 mm
Power	125 kW @ 4,800 r.p.m.
Torque	292 Nm @ 3,200 r.p.m.
Oil Specification	Service classification - SF or SG Viscosity grade - 20W/40 for normal use. - 15W/40 for prolonged use in snow areas.
Refill Oil Capacity	3.8 litre (add 0.3 litres for filter)
Coolant	2/3 water and 1/3 long life coolant conforming to Holden's Specification no HN 1897, part no M39288 (1 litre) or M39338 (4 litres)
Coolant Capacity	10 litres approx.
Spark Plug	AC R44LTS6 (0)
Spark Plug Gap	1.4 ~ 1.5 mm
Radiator surge tank cap	120 ~ 150 kPa
Idle MixtureSettings	Idle mixture and idle speed are programmed into the ECM (Electronic Control Module) and cannot be changed. The throttle blade stop has been preset and capped and should not be altered.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may be detrimental to the operation of your car.

NOTE: Engine tune-up data, including spark plug gap and idle speed will be found on the Emission Label, on the passenger's side strut tower, inside the engine compartment of your car, refer page 9-4.

GENERAL SPECIFICATIONS

TRANSMISSIONS		Manual	Automatic
Gear Ratios	1st	3.25:1	3.06:1
	2nd	1.99:1	1.63:1
	3rd	1.29:1	1.00:1
	4th	1.00:1	0.70:1
	5th	0.72:1	-
	Rev	3.15:1	2.29:1
Refill oil capacity		1.9 litres	4.8 litres
Fluid specification		Dexron *11D	

Brakes	Description	4 wheel disc, incorporating park brake acting on rear wheels.
	Fluid type	Heavy duty hydraulic brake fluid to Holden's specification HN 1796 (Holden's part no 92026651).

Steering	Power	Dexron *11D
	Manual	EP Semi Fluid Lithium Base Type O Grease

Rear Axle	Ratio	3.08:1
	Fluid type	Hypoid gear oil SAE 90 GL5 grade to Holden's specification HN 1561

Front wheel bearings	Special grease, non-soap, meeting Holden's specification HN 1227
Clutch cable clevises Constant velocity joint Clutch and brake pedal pivots Windshield wiper pivot points	Molybdenum Disulphide Grease, meeting Holden's specification HN 1271
Bonnet catch, lock and hinges Door hinge and hold opens Boot/tailgate hinges & lock mechanisms Accelerator pedal pivots	No. 1 Lithium (Zinc Oxide) Grease, meeting Holden's specification HN 1225
Door Lock fork and striker bolts	Solid Oil, Holden's part M33028
All lock cylinders	Powdered graphite (apply through key hole - do not oil)
Universal joints	Lithium grease, meeting Holden's specification HN 1147

* Dexron is a registered Trademark of General Motors Corporation

BODY DIMENSIONS (mm)	SEDANS			WAGONS	
	Exec.	Berlina	Calais	Exec	Berlina
Vehicle length	4850	4850	4865	4896	4896
Vehicle width	1794	1802	1813	1794	1802
Vehicle Height	1403	1401	1407	1422	1419
Wheel base	2731	2731	2731	2822	2822
Overhang - front	939	939	946	939	946
Overhang - rear	1180	1180	1188	1135	1135
Tread - front	1451	1451	1453	1451	1451
Tread - rear	1478	1478	1480	1478	1478

Battery

Low maintenance Chloride SP350D. 12 volt, 75min/350 amp.

Vehicle weights

Refer to page 7-1.

Bulb specification

Refer pages 6-16 and 6-17.

Tyres

Refer to tyre placard inside the glovebox of your car for tyre pressures.

Wheels nuts should be tightened to 125 Nm.

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air. The three major emission control systems fitted to your car are:

1. **Evaporative Emission Control System** (Australian Cars Only)
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.

2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.

3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the appropriate service manual for your car. Also refer to the emission label inside the engine compartment (on the passenger side strut tower) of your car.

Owner responsibility

Cars sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements. Export cars comply with the ECE R15-04 Emission requirements, where regulations exist.

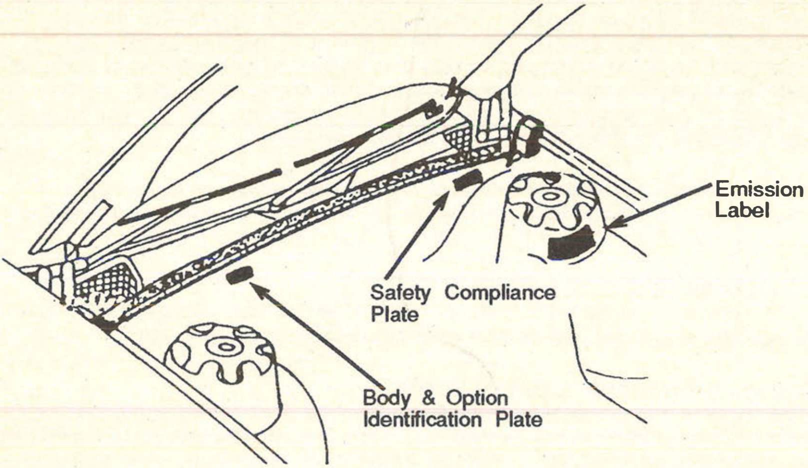
To ensure that these components achieve their purpose of controlling the emission of pollutants to the atmosphere, the engine or exhaust system of your car must NOT be modified in any way. Any departure from the Manufacturer's design specifications may increase the emissions or otherwise defeat the intent of the regulations.

ANY PERSON WHO REMOVES, MODIFIES OR OTHERWISE RENDERS INEFFECTIVE ANY EMISSION CONTROL COMPONENTS FITTED TO A VEHICLE WILL BE CONTRAVENING THE RELEVANT REGULATIONS. ANY PERSON WHO OWNS AND OR OPERATES SUCH A VEHICLE COULD ALSO BE GUILTY OF AN OFFENCE UNDER THE REGULATIONS.

Maintenance requirements

To ensure continuing compliance with the regulations it will be necessary for you to maintain your car's emission control system in accordance with the instructions given in the Holden's Maintenance Plan (refer Chapter 10) and the relevant Service Manuals.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.



Body and Option Identification Plate

This plate shows model identification, body serial number, paint and trim colour combination, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and built date.

The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

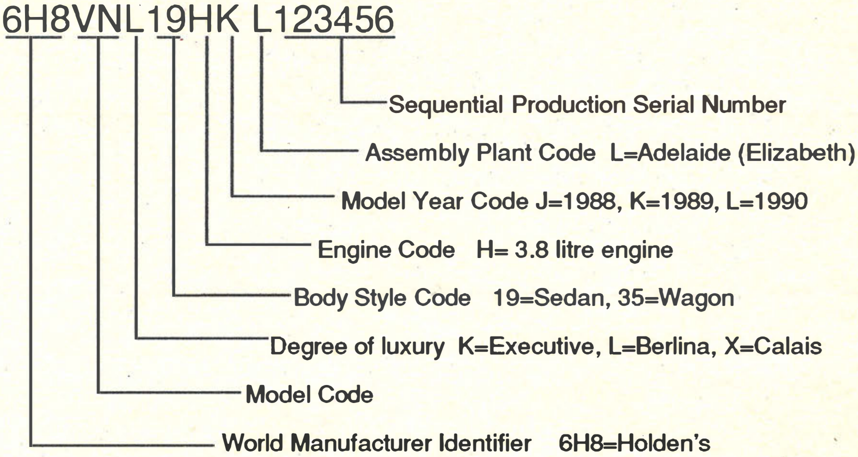
Safety Compliance Plate

Shown on the plate are the vehicle Make, Model Series, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity and Approval Number.

Emission Label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions, refer previous page.

Vehicle Identification Number (V.I.N)



6H8VNL19HK L123456

Sequential Production Serial Number
Assembly Plant Code L=Adelaide (Elizabeth)
Model Year Code J=1988, K=1989, L=1990
Engine Code H= 3.8 litre engine
Body Style Code 19=Sedan, 35=Wagon
Degree of luxury K=Executive, L=Berlina, X=Calais
Model Code
World Manufacturer Identifier 6H8=Holden's

The V.I.N. is located on a plate is attached to the front passenger's side of the instrument panel. As it is on the very front of the instrument panel it may only be viewed from the outside of the car, looking back through a window in the windscreen paintout, adjacent to the parked windscreen wiper arm.

Engine Number

Individual identification numbers are stamped onto every engine - on the front, upper area of the engine block, on the passenger's side.

Chapter 10

Service/Maintenance Schedule

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10-1 When to Have the Service Carried out
10-2 Extreme Operating Conditions
10-3 Maintenance Schedule
10-6 Suggested Times for Each Service
10-8 Beginning of Maintenance Coupons
10-52 Notice of Name/Address/Ownership Change

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your car. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your car cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

# 1,500 km - 1 month
# 5,000 km - 3 month
# 15,000 km - 9 month
# 25,000 km - 15 month
# 35,000 km - 21 month
# 45,000 km - 27 month
# 55,000 km - 33 month
# 65,000 km - 39 month
# 75,000 km - 45 month
# 85,000 km - 51 month
# 95,000 km - 57 month
# 105,000 km - 63 month
# 115,000 km - 69 month
# 125,000 km - 75 month
# 135,000 km - 81 month
# 145,000 km - 87 month
# 155,000 km - 93 month
# 165,000 km - 99 month
# 175,000 km - 105 month
# 185,000 km - 111 month
# 195,000 km - 117 month
# 205,000 km - 123 month

The one month (1,500 kilometres) service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer. Your Dealer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 15,000 km and 205,000 km are to be performed after 205,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carries out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 5-1 so that you are conversant with your entitlements.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important as it will not only assist in the determination of Warranty Claims, but enhance the value of the car whenever resale is contemplated.

If your car operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your car operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,500 kilometres under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change manual transmission gear oil @ 40,000					E	
Change automatic transmission fluid ~~and filter~~ @ 20,000 km , filter at 40,000 Km.				D	E	
Inspect front suspension and steering for leaks, wear or damage @ 5,000 km	A	B				
Replace oil filter @ 5,000 km or 6 months (whichever comes first)	A					
Change engine oil @ 5,000 km or 6 months (whichever comes first)	A		C	D	E	F
Replace air cleaner element @ 20,000 km	A					
Inspect and clean linings of park brake @ 20,000 km	A	B				
Change gear oil in Limited Slip Differential @ 20,000 km					E	F

A = Dust, dirt, loose road material.
B = Muddy and wet areas.
C = Cold weather (below 5 degrees Celcius) and when most trips are less than 5 kilometres.
D = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving e.g. taxi, door to door delivery.
E = Caravan or trailer towing.
F = Extended heavy load high speed operation in temperatures above 35 degrees Celcius.

MAINTENANCE SCHEDULE

Use odometer reading or months, whichever occurs first	X 1000	1.5	5	15	25	35	45	55	65	75	85	95	105	115	125	135	145	155	165	175	185	195	205
	or month	1	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	115	117	123
UNDERHOOD OPERATIONS																							
Change engine oil			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Change oil filter			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check open circuit voltage, electrolyte & fluid level (where applicable) of battery		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Engine accessory drive belt. Check length indicator and belt condition		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check condition and attachment of all air ducts between air cleaner and inlet manifold		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor						x				x				x				x				x	
Pressure test cooling system and cap		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Replace engine air cleaner element						x				x				x				x				x	
~~Check exhaust gas sensor operation~~						x				x				x				x				x	
Check vacuum fitting hoses and connections		x		x		x		x		x		x		x		x		x		x		x	
Check PCV valve for correct operation		x				x				x				x				x				x	

Replace spark plugs			x		x		x		x		x		x		x		x		x		x	
Check continuity of spark plug leads. Replace if necessary									x								x					
Check attachment and security of dual crankshaft sensor ?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check carbon canister for leaks or restrictions.	x					x				x				x				x				x

UNDER VEHICLE OPERATIONS

Replace fuel filter					x				x				x				x				x	
Limited slip differential - change gear oil		x																				
Rear axle. Check oil level	x		x		x		x		x		x		x		x		x		x		x	
Rear axle. Check for leaks	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Manual transmission. Check oil level	x		x		x		x		x		x		x		x		x		x		x	
Manual transmission. Check for leaks	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Replace fluid ~~and filter~~ in automatic transmission					x				x				x				x				x	
Inspect front and rear disc brake pads for wear and discs for surface condition			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Parking brake - check linings and drums for wear					x				x				x				x				x	
Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing					x				x				x				x				x	
Check all brake and fuel lines and hoses for condition, attachment and routing	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Replace Auto trans filter																		x				

MAINTENANCE SCHEDULE cont.

Use odometer reading or months , whichever occurs first x 1000 km	1.5	5	15	25	35	45	55	65	75	85	95	105	115	125	135	145	155	165	175	185	195	205
or months	1	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	115	117	123
Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Repack and adjust front wheel bearings				x				x				x				x				x		
Inspect CV joint for grease loss or damage			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Lubricate transmission shift				x				x				x				x				x		
Lubricate clutch cable				x		x		x		x		x		x		x		x		x		x

INTERIOR VEHICLE OPERATIONS

Check park brake operation. Adjust if necessary			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies			x		x		x		x		x		x		x		x		x		x	

EXTERIOR VEHICLE OPERATIONS

Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch			x		x		x		x		x		x		x		x		x		x	
Check transmitter performance of Calais Anti-theft System		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

ROAD TEST

Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

SUGGESTED LABOUR TIMES	-	0.6	1.5	1.5	2.8	1.2	1.5	1.5	2.9	1.2	1.5	1.5	2.8	1.2	1.5	1.5	2.9	1.2	1.5	1.5	2.8	1.2
add time for automatic transmission	-	-	-	-	0.3	-	-	-	0.3	-	-	-	0.3	-	-	-	0.3	-	-	-	0.3	-
add time for Limited Slip Differential	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

The owner will be charged for all lubricants and materials used plus labour at the times recommended above.

The repair or replacement of any part found faulty during a service check and not covered by a Holden's Warranty will be added to the charges. Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work required can be authorised.

1500 Kilometre 1 Month Inspection and Adjustment

This vehicle has been thoroughly checked in accordance with the 1 month—1,500 kilometre inspection and adjustment.

Dealer ....
Service Manager's Signature ....

Date .... Odometer Reading ....

1,500 Kilometre Inspection and Adjustment

HOLDEN WISE
QUALITY SERVICE & PARTS

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr. / Mrs. / Miss ....

Address ....

Town & State .... Postcode ....

Reg. No. .... Eng. No. ....

Selling Dealer's Stamp & Signature ....

Date of Acquisition ....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature ....

Servicing Dealer ....

Town .... State ....

Owner's Signature ....

This Inspection & Adjustment will be carried out without charge to the owner except for any lubricants used.

PTO

UNDER HOOD OPERATIONS

	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check vacuum fitting hoses and connections
	Check PCV valve for correct operation
	Check attachment and security of dual crankshaft sensor
	Check carbon canister for leaks or restrictions

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

5,000 km or 3 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 0.6 hours to perform.
(add 0.2 hours for Limited Slip Diff.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Limited slip differential - change gear oil
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

5,000 km or 3 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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15,000 km or 9 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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15,000 km or 9 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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....

Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check vacuum fitting hoses and connections
	Replace spark plugs
	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

25,000 km or 15 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested...

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check attachment and security of dual crankshaft sensor

25,000 km
or 15 Month
SERVICE
VALIDATION

Servicing Dealer ....
Date of Service ....
Odometer ....
Signed ....

Additional Services Performed:
....
....
....

UNDER VEHICLE OPERATIONS

	Rear axle. Check for leaks
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Repack and adjust front wheel bearings
	Inspect CV joint for grease loss or damage
	Lubricate transmission shift
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

35,000 km or 21 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

35,000 km or 21 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.8 hours to perform.
(add 0.3 hours for auto. trans.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested.......................................

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor
☐	Pressure test cooling system and cap
☐	Replace engine air cleaner element
☐	Check exhaust gas sensor operation
☐	Check vacuum fitting hoses and connections
☐	Check PCV valve for correct operation
☐	Replace spark plugs
☐	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Replace fuel filter	parts
	Rear axle. Check oil level	
	Rear axle. Check for leaks	
	Manual transmission. Check oil level	
	Manual transmission. Check for leaks	
	Replace fluid and filter in automatic transmission	oil gasket.
	Inspect front and rear disc brake pads for wear and discs for surface condition	
	Parking brake. Check linings and drums for wear.	
	Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing	X
	Check all brake and fuel lines and hoses for condition, attachment and routing	
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers	
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment	
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts	
	Inspect CV joint for grease loss or damage	

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

45,000 km or 27 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor
	Check carbon canister for leaks or restrictions

45,000 km or 27 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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UNDER VEHICLE OPERATIONS

☐ Rear axle. Check for leaks

☐ Manual transmission. Check for leaks

☐ Inspect front and rear disc brake pads for wear and discs for surface condition

☐ Check all brake and fuel lines and hoses for condition, attachment and routing

☐ Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment

☐ Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

☐ Inspect CV joint for grease loss or damage

☐ Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

☐ Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

☐ Check transmitter performance of Calais Anti-theft System

ROAD TEST

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

55,000 km or 33 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested...

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check vacuum fitting hoses and connections
	Replace spark plugs
	Check attachment and security of dual crankshaft sensor

55,000 km or 33 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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....

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

65,000 km or 39 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor

65,000 km or 39 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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UNDER VEHICLE OPERATIONS

	Rear axle. Check for leaks
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Repack and adjust front wheel bearings
	Inspect CV joint for grease loss or damage
	Lubricate transmission shift
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

75,000 km or 45 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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75,000 km or 45 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.9 hours to perform.
(add 0.3 hours for auto. trans.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor
☐	Pressure test cooling system and cap
☐	Replace engine air cleaner element
☐	Check exhaust gas sensor operation
☐	Check vacuum fitting hoses and connections
☐	Check PCV valve for correct operation
☐	Replace spark plugs
☐	Check attachment and security of dual crankshaft sensor
☐	Check continuity of spark plug leads. Replace if necessary

UNDER VEHICLE OPERATIONS

	Replace fuel filter
	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Replace fluid and filter in automatic transmission
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Parking brake. Check linings and drums for wear.
	Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

85,000 km or 51 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check attachment and security of dual crankshaft sensor
☐	Check carbon canister for leaks or restrictions

85,000 km or 51 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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UNDER VEHICLE OPERATIONS

	Rear axle. Check for leaks
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

95,000 km or 57 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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95,000 km or 57 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check vacuum fitting hoses and connections
☐	Replace spark plugs
☐	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

105,000 km or 63 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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105,000 km or 63 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Rear axle. Check for leaks
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Repack and adjust front wheel bearings
	Inspect CV joint for grease loss or damage
	Lubricate transmission shift
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

115,000 km or 69 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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115,000 km or 69 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.8 hours to perform. (add 0.3 hours for auto. trans.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature .... Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor
	Pressure test cooling system and cap
	Replace engine air cleaner element
	Check exhaust gas sensor operation
	Check vacuum fitting hoses and connections
	Check PCV valve for correct operation
	Replace spark plugs
	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Replace fuel filter
	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Replace fluid and filter in automatic transmission
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Parking brake. Check linings and drums for wear.
	Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

125,000 km or 75 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested...

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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check attachment and security of dual crankshaft sensor
☐	Check carbon canister for leaks or restrictions

125,000 km or 75 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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UNDER VEHICLE OPERATIONS

☐ Rear axle. Check for leaks

☐ Manual transmission. Check for leaks

☐ Inspect front and rear disc brake pads for wear and discs for surface condition

☐ Check all brake and fuel lines and hoses for condition, attachment and routing

☐ Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment

☐ Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

☐ Inspect CV joint for grease loss or damage

☐ Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

☐ Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

☐ Check transmitter performance of Calais Anti-theft System

ROAD TEST

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

135,000 km
or 81 Month
SERVICE
VALIDATION

Servicing Dealer ....
Date of Service ....
Odometer ....
Signed ....

Additional Services Performed: ....
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135,000 km or 81 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....
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Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check vacuum fitting hoses and connections
☐	Replace spark plugs
☐	Check attachment and security of dual crankshaft sensor

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

145,000 km or 87 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor

145,000 km
or 87 Month
SERVICE
VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

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UNDER VEHICLE OPERATIONS

☐ Rear axle. Check for leaks

☐ Manual transmission. Check for leaks

☐ Inspect front and rear disc brake pads for wear and discs for surface condition

☐ Check all brake and fuel lines and hoses for condition, attachment and routing

☐ Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment

☐ Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

☐ Repack and adjust front wheel bearings

☐ Inspect CV joint for grease loss or damage

☐ Lubricate transmission shift

☐ Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

☐ Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

☐ Check transmitter performance of Calais Anti-theft System

ROAD TEST

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

155,000 km or 93 months Service Coupon

HOLDENWISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.9 hours to perform.
(add 0.3 hours for auto. trans.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature .... Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor
	Pressure test cooling system and cap
	Replace engine air cleaner element
	Check exhaust gas sensor operation
	Check vacuum fitting hoses and connections
	Check PCV valve for correct operation
	Replace spark plugs
	Check attachment and security of dual crankshaft sensor
	Check continuity of spark plug leads. Replace if necessary.

155,000 km or 93 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

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UNDER VEHICLE OPERATIONS

	Replace fuel filter
	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Replace fluid and filter in automatic transmission
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Parking brake. Check linings and drums for wear.
	Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

165,000 km or 99 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

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Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor
	Check carbon canister for leaks or restrictions

165,000 km
or 99 Month
SERVICE
VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

....

....

UNDER VEHICLE OPERATIONS

☐ Rear axle. Check for leaks

☐ Manual transmission. Check for leaks

☐ Inspect front and rear disc brake pads for wear and discs for surface condition

☐ Check all brake and fuel lines and hoses for condition, attachment and routing

☐ Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment

☐ Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

☐ Inspect CV joint for grease loss or damage

☐ Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

☐ Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

☐ Check transmitter performance of Calais Anti-theft System

ROAD TEST

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

175,000 km or 105 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check vacuum fitting hoses and connections
☐	Replace spark plugs
☐	Check attachment and security of dual crankshaft sensor

175,000 km
or 105 Month
SERVICE
VALIDATION

Servicing Dealer ....
Date of Service ....
Odometer ....
Signed ....

Additional Services Performed: ....

....

....

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

185,000 km or 111 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

☐	Change engine oil
☐	Change oil filter
☐	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
☐	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
☐	Engine accessory drive belt. Check length indicator and belt condition
☐	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
☐	Check condition and attachment of all air ducts between air cleaner and inlet manifold
☐	Pressure test cooling system and cap
☐	Check attachment and security of dual crankshaft sensor

185,000 km or 111 Month SERVICE VALIDATION

Servicing Dealer ....
Date of Service ....
Odometer ....
Signed ....

Additional Services Performed:
....
....
....

UNDER VEHICLE OPERATIONS

☐ Rear axle. Check for leaks

☐ Manual transmission. Check for leaks

☐ Inspect front and rear disc brake pads for wear and discs for surface condition

☐ Check all brake and fuel lines and hoses for condition, attachment and routing

☐ Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment

☐ Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts

☐ Repack and adjust front wheel bearings

☐ Inspect CV joint for grease loss or damage

☐ Lubricate transmission shift

☐ Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

☐ Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

☐ Check transmitter performance of Calais Anti-theft System

ROAD TEST

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

195,000 km or 117 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.8 hours to perform.
(add 0.3 hours for auto. trans.)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. ....

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Drain, flush and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Inspect hoses and clamps. Clean outside of the radiator and A/C condensor
	Pressure test cooling system and cap
	Replace engine air cleaner element
	Check exhaust gas sensor operation
	Check vacuum fitting hoses and connections
	Check PCV valve for correct operation
	Replace spark plugs
	Check attachment and security of dual crankshaft sensor

195,000 km or 117 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed:

....

....

....

UNDER VEHICLE OPERATIONS

	Replace fuel filter
	Rear axle. Check oil level
	Rear axle. Check for leaks
	Manual transmission. Check oil level
	Manual transmission. Check for leaks
	Replace fluid and filter in automatic transmission
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Parking brake. Check linings and drums for wear.
	Hydraulic brake system. Drain and refill with specified fluid. Bleed system. Check brake performance when road testing
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies

EXTERIOR VEHICLE OPERATIONS

	Lubricate exterior door handle pivots, door and rear compartment strikers and hold open devices. Check and lubricate door lock and catch
	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

205,000 km or 123 Month SERVICE VALIDATION

Servicing Dealer ....

Date of Service ....

Odometer ....

Signed ....

Additional Services Performed: ....

205,000 km or 123 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform.

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested..

....

....

Signature ....Date ....

UNDER HOOD OPERATIONS

	Change engine oil
	Change oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester. Top up as required
	Check open circuit voltage, electrolyte & fluid level (where applicable) of battery
	Engine accessory drive belt. Check length indicator and belt condition
	Check condition, attachment and routing of all hoses in engine compartment, inc. brake, fuel, coolant, A/C, emission control
	Check condition and attachment of all air ducts between air cleaner and inlet manifold
	Pressure test cooling system and cap
	Check attachment and security of dual crankshaft sensor
	Check carbon canister for leaks or restrictions

UNDER VEHICLE OPERATIONS

	Rear axle. Check for leaks
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition
	Check all brake and fuel lines and hoses for condition, attachment and routing
	Steering and suspension inspection. Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures and torque wheel nuts
	Inspect CV joint for grease loss or damage
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation. Adjust if necessary

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of Calais Anti-theft System

ROAD TEST

	Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation (auto). Check A/C performance. Check neutral start switch (auto.). Check and report any abnormal conditions.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address, or subsequent owners who purchase the vehicle, fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss ....

Address ....

Town..

State ....

Registration No. ....

Vehicle Identification Number (VIN) ....

(Refer Chapter 9 for location of V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss ....

Address ....

Town..

State ....

Registration No. ....

Vehicle Identification Number (VIN) ....

(Refer Chapter 9 for location of V.I.N.)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
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☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss ....

Address ....

Town ....

State ....

Registration No. ....

Vehicle Identification Number (VIN) ....

(Refer Chapter 9 for location of V.I.N.)

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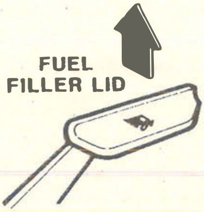
FUEL

CAUTION: Petrol is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the car when refuelling. If petrol fumes are noticed while driving, the cause should be determined and corrected, without delay.

A remote release lever for the fuel filler flap is provided inside the car. Pull up the release lever, mounted on the floor, to the right of the driver's seat.

The fuel cap is a screw-on, ratchet type. After refuelling, tighten the cap clockwise until a clicking noise is heard.



TANK CAPACITIES:

Sedan - 63 litres (standard)
- 85 litres (where fitted)

Wagon - 68 litres

Overfilling of the fuel tank can affect the evaporative Emission Control System.

To avoid this, the following recommendations are made:

1.Fuel tanks should always be filled at the intermediate or fast fill rate. After initial shut-off (or vent blow-back) no further fuel should be added. This retains the tank's ability to accommodate fuel expansion.

2.It is permissible to "trickle fill" fuel tanks where cars are to be driven for a distance of at least 50 kilometres shortly after the tank is filled. However, this is not recommended on hot days (over 30 degrees Celcius).

CARS OPERATED IN AUSTRALIA

To reduce the exhaust pollutants in the atmosphere, your car has been designed to operate on a good quality, clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number), as indicated by the label on the fuel cap.

The use of any other fuel will seriously damage the fuel system of your car (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

FUEL FILLER NOZZLE RESTRICTOR

A fuel filler nozzle restrictor is fitted to ensure that UNLEADED fuel is used. This allows the thinner, unleaded fuel filler nozzle to open the hinged flap, so that fuel may be added to the fuel tank. The leaded fuel filler nozzle is wider and therefore cannot open the flap.

EXPORT VEHICLE ONLY

In countries where a fuel filler nozzle restrictor is fitted to your car (see above) a good quality, clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number) must be used.

In New Zealand and other countries where there is no fuel filler restrictor fitted to your car, either 91 octane (unleaded) or 96 octane (leaded) may be used. The use of 96 octane fuel will not, however enhance engine performance.

Note that the use of unleaded petrol results in black tail pipe deposits rather than the grey colour with which most people are familiar. The black colour does not, therefore, indicate a state of poor engine tune.

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